

Annual Progress Report

1 April 2008 to 31 March 2009



Jawaharlal Nehru Krishi Vishwa Vidyalaya
KRISHI VIGYAN KENDRA, TIKAMGARH (M.P.)

ANNUAL PROGRESS REPORT

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

KVK	Postal Address with Pin code	Telephone			E mail
		STD	Office	FAX	
Tikamgarh	JNKVV, KVK, Tikamgarh Pin-472001(MP)	07683	244934	245034	kvktikamgarh@rediff.com

1.2. Name and address of host organization with phone fax and e-mail

Host Institute name	Postal Address with Pin code	Telephone			E mail
		STD	Office	FAX	
JNKVV	JNKVV, Jabalpur – 482 004	0761	2681710	2681710	jnkvvdes@rediff.com

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. R. K.S. Tomar	(07683) 246329	09425893829	kvktikamgarh@rediffmail.com

1.4. Year of sanction: 1994

1.5. Staff Position (as on 31st March, 2009)

S.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic pay	Date of joining	Permanent /Temporary	Category
1	Programme Coordinator	Dr. R. K. S. Tomar	PC	Agronomy	12000-18300 (13860)	09.02.2007	Temp	Others
2	Subject Matter Specialist	Shri Banshi Lal Sahu	SMS	Home Science	8000-13500 (8000)	25.01.2007	Temp	OBC
3	Subject Matter Specialist	Dr. Rupendra Kumar	SMS	Ag Extn	8000-13500 (8000)	03.02.2007	Temp	Others
4	Subject Matter Specialist	Dr. Rakesh Kumar Prajapati	SMS	Plant Protection	8000-13500 (8000)	03.02.2007	Temp	Others
5	SMS	Vacant	-	-	-	-	-	-
6	SMS	Vacant	-	-	-	-	-	-
7	SMS	Vacant	-	-	-	-	-	-
8	Prog. Asstt.	Vacant	-	-	-	-	-	-
9	Programme Assistant	Shri. Pramod Prasad Padwar	PA	Computer Science	5500-9000 (5500)	01.04.2008	Temp	ST
10	Farm Manager	Vacant	-	-	-	-	-	-
11	Accountant / Superintendent	Vacant	-	-	-	-	-	-
12	Stenographer	Vacant	-	-	-	-	-	-
13	Driver	Shri B.K. Latoria	Driver	-	3050-4500 (3050)	10.07.2008	Temp	SC
14	Driver	Shri M.L. Chadar	Driver	-	3050-4500 (3050)	10.07.2008	Temp	SC
15	Supporting staff	Vacant	Messenger	-	-	-	-	-
16	Supporting staff	Shri A H John	Messenger	-	2550 -3200 (3140)	15.03.1999	Temp	OBC

1.6. Total LAND with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	2
2.	Under Demonstration Units	Nil
3.	Under Crops	18
4.	Orchard/Agro-forestry	Nil
5.	Others	Nil

1.7. Infrastructural Development:

1.7.(A) BUILDINGS

S. No.	Name of Building	Source of Funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Admin. Building	ICAR	-	-	11,12,127	8.6.06	497.17	Work on progress
2.	Farmers Hostel	ICAR	-	-	13,00,575	8.6.07	305.00	Work on progress
3.	Staff Quarters (6)	ICAR	8.8.2007	H-106.3 G-309.65	17,58,503	-	-	-
4.	Demo. Units	-	-	-	-	-	-	-
i	Agro Net House	MPWSRP	27.3.2006	80'x40'x10'	3,28,484			
ii	Agro Poly House	MPWSRP	29.3.2006	30'x15'x10'	2,59,168			
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting Tank	MPWSRP	31.3.2006	50x68x1.5	3,40,000	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm Go-down	-	-	-	-	-	-	-

1.7.(B) VEHICLES

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep	06.02.1999	3,30,000	19,837	Repairable condition
Motor cycle	24.03.2007	41,390	2,994	New

1.7. (C). EQUIPMENTS & AV AIDS

S. No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
(A)	Office Equipments			
1	Sprayer	12-10-1996	1,300	On working
2	Cooler	05-05-2000	13,054	On working
3	Cooler	31-03-2001	6,790	On working
4	Television (Color) Bpl	31-03-2001	11,790	On working
5	V.C.D.(Bpl)	31-03-2001	6,990	On working
6	L.P.G.(Cylinder & Burner)	30-03-2001	3,505	On working
7	O.H.P.	31-03-2001	9,780	On working
8	Computer with peripherals (1)	25-03-2004	82,076	On working
9	L.P.G (Cylinder& Burner)	21-03-2005	3,650	On working
10	Disk T.V.	03-10-2005	5,640	On working
11	Camera Sony(Cybershot 7.2mp) DSC-P200	20-03-2006	19,700	On working
12	Aqua guard	28-03-2006	5,600	On working
13	Fire fighter	28-03-2006	12,900	On working
14	Computer with peripherals (1)	24-03-2007	97,640	On working
15	Laptop Computer	24-03-2007	-	On working
16	Motor cycle TVS Star city	24-03-2007	41,390	On working
17	HP Color Laser printer	28-03-2008	24,648	On working
18	Public address system with peripherals	29-03-2008	43,707	On working
19	Inverter with battery	29-03-2008	17,562	On working
20	Air Condition (AC) Window	20-03-2009	17,990	On working
21	Air Condition (AC) Split	20-03-2009	24,990	On working
22	Refrigerator (LG)	20-03-2009	16,947	On working
23	Television (Colour) LG	20-03-2009	8,690	On working
24	DVD player (LG)	20-03-2009	3,990	On working
25	Water Cooler	20-03-2009	24,800	On working
26	Aqua guard	20-03-2009	9,490	On working
27	Vacuum Cleaner	20-03-2009	9,990	On working
(B)	Instruments under MPWSRP			
1	Photo copiers	31-01-2006	-	On working
2	Computer with peripherals (1)	31-01-2006	-	On working
3	Laptop Computer (1)	31-01-2006	-	On working
4	LCD projector with screen	31-01-2006	-	On working
5	UPS 1 kva	24-03-2006	6,930	On working
6	UPS 2 kva	24-03-2006	17,200	On working
7	Honda Generator	27-03-2006	45,661	On working
8	Weighing machine	29-03-2006	10,405	On working
9	Sprinkle irrigation system (1)	15-03-2008	37,175	On working
10	Drip irrigation system (1)	15-03-2008	2,37,738	On working
11	Drip irrigation accessories (1)	25-03-2008	28,091	On working
12	Electric motors (2)	29-03-2008	25,912	On working
13	Cut throat flue	05-04-2008	12,700	On working
14	Camera Sony (Cyber-shot 7.2mp DSC-S730)	12-11-2008	10,890	On working
(C)	Farm Equipments			
1	Submersible pump (5 hp)	31-03-2001	33,950	On working
2	Multi crop thresher (5 hp)	31-03-2001	17,260	On working
3	Electric motor (10 hp)	31-03-2001	27,694	On working
4	Harrow	30-06-2001	16,500	On working
5	Seed treating drum (2)	05-03-2008	2,400	On working
6	Wheel hoe (8)	05-03-2008	4,000	On working

7	Light Trap (2)	05-03-2008	3,000	On working
8	Bi cycle wheel hoe (5)	05-03-2008	4,250	On working
9	Garlic planter (1)	05-03-2008	1,800	On working
10	Maize Sheller (10)	05-03-2008	550	On working
11	Manual seed grader (1)	05-03-2008	11,500	On working
(D) Poultry Equipments				
1	Chick drinker (3)	25-03-2008	330	On working
2	Chick feeder (3)	25-03-2008	360	On working
3	Big feeder (2)	25-03-2008	500	On working
4	Big drinker (2)	25-03-2008	360	On working
5	Poultry Cage (1)	25-03-2008	1,400	On working
6	Automatic vaccinator (1)	25-03-2008	600	On working
7	Hower breeder (1)	25-03-2008	980	On working
(E) Instruments under E-Linkage (ERNET project)				
1	Router, Switch, Modem	2008-09	-	On working
2	Computers with peripherals(5 set)	2008-09	-	On working
3	Server Computer (1)	2008-09	-	On working
3	Smart UPS RT 3000VA (1)	2008-09	-	On working
4	Printer (Dot Matrix)	2008-09	-	On working
5	Air Condition(AC) Window type(Onida)	2008-09	-	On working
(F) Instruments under NAIP				
1	Electric motor with accessories (1)	01-03-2009	48,030	On working
2	Camera (Canon PowerShot A1000 IS, 10.0 MP)(1)	20-04-2009		On working
3	LCD projector with screen (1)	20-04-2009	45,422	On working

1.8. Details SAC meeting conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	08-05-2008	88	Food processing should be exploited in the district	Trainings and demonstration included in action plan
			Drip irrigation and lift irrigation scheme should be started	Discussed with the WRD action EE
			Hybrid Papaya should be demonstrated on farmers field	Training and FLD have been included in action plan
			Marketing of medicinal crops should be established in the district	Discussion with CEDMAP and Mandi board. Action -CEDMAP
			Trainings and visits of farmers should be performed as joint venture with CEDMAP	Action has been taken
2.	06-11-2008	77	Marigold introduced in district	Included in OFT and Training
			KMS voice message must be in Hindi	Action will be taken
			Emphasis should be given on nutritional garden	Included in OFT and FLD Training
			Deworming medicine of cattle's coupled with mineral mixture	Included in OFT program
			Training should be given on storage to farm women	Included in Training program

2. DETAILS OF DISTRICT (2008-09)

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Crop production + Animal husbandry + Horticulture
2	Crop production + Animal husbandry
3	Crop production
4	Fisheries

2.2 Description of Agro-climatic Zone & major agro ecological situations

S. No	Agro-climatic Zone	Characteristics
1	Name	Bundelkhand Zone (VIII – Zone)
2	District Covered	Tikamgarh, Chhatarpur, Datia, part of Shivpuri and Guna
3	Topography	0-5% slope with small hillocks
4	Physiography	266 m to 560 m above MSL
5	Annual Rainfall	918.77 mm
	Soil type	Clay (8.9%), Clay loam (29.5%), Sandy clay loam (17.6%), Sand loam (40%), Gravel sandy loam (3.8%)
7	Temperature (Minimum)	4.50 °C (Dec), 30.1 °C (May)
8	Temperature (Maximum)	21.75 °C (Dec), 43.50 °C (May)

S. No	Agro-ecological situation	Characteristics
AES 1	Undulating topography with red soil (<i>Ranker</i>)	Eroded land, less ground water, very low soil depth, poor irrigation potential, crop production + Animal Husbandry + Horticulture. Major Crops – groundnut, black gram, soybean, wheat, pea, mustard, ginger, turmeric, <i>colocasia</i> , papaya and guava
AES 2	Plain to undulating black soil (<i>Kabar / Mar</i>)	Deep to shallow depth, sufficient ground water for irrigation potential for dug well and tube well, crop production + Animal Husbandry + Horticulture. Major Crops – gram, black gram, soybean, wheat, mustard, coriander, mango, citrus, brinjal, tomato and onion
AES 3	Plain to undulating sandy loam (<i>Padua</i>)	Mostly sandy and sandy clay loam, good to poor ground water, topography generally varies from plain to undulating condition. Major Crops – soybean, black gram, sesame, wheat, mustard, brinjal, tomato, onion, coriander, mango, guava and citrus.

2.3 Soil types

S. No	Soil type	Characteristics	Area (mha)
1	<i>Padua</i> (Medium Soils)	Soil are light gray in colour, well drained, better suited of all types of crops under irrigated conditions which covered two orders, vertisols and inceptisols	3.11
2	<i>Kabar/Mar</i> (Heavy Soils)	The soil are black in colour, posses high moisture holding capacity and have integrated of Mont morrilonite, illite and chloride minerals which covered under the order of vertisols.	0.94
3	<i>Ranker</i> (Light Soils)	The soils are generally red in colour and very light in textures. These soils are highly deficient in nutrients with very low moisture retaining capacity which covered under order entisols and inseptisols	0.59

2.4. Area, Production and Productivity of major crops cultivated in the district

KHARIF CROPS				
S. No	Crop	Area(000, ha)	Production(000, tones)	Productivity(t/ha)
1	Paddy	8.60	9.50	1.10
2	Sorghum	10.30	13.90	1.35
3	Maize	02.00	2.80	1.40
4	Black gram	31.20	14.00	0.45
5	Moong	3.90	1.36	0.35
6	Groundnut	9.70	9.70	1.27
7	Sesame	13.00	6.00	0.46
8	Soybean	23.90	35.90	1.50
RABI CROPS				
S. No	Crop	Area(000, ha)	Production(000, tones)	Productivity(t/ha)
1	Wheat	111.20	278.00	2.50
2	Barley	17.00	31.30	1.84
3	Gram	34.90	31.40	0.90
4	Pea	14.20	11.20	0.79
5	Lentil	1.70	0.80	0.50
6	Mustard	17.70	8.40	0.47
FRUITS				
S. No	Crop	Area(000, ha)	Production(000, tones)	Productivity(t/ha)
1	Guava	00.15	25.72	17.50
2	Custard apple	00.12	0.25	20.00
3	Mango	00.08	0.81	10.00
4	Lime	00.65	10.40	16.00
5	Papaya	00.35	1.20	34.50
VEGETABLES				
S. No	Crop	Area(000, ha)	Production(000, tones)	Productivity(t/ha)
1	Garden pea	13.59	271.80	20.00
2	Potato	01.50	19.95	19.00
3	Tomato	00.75	14.25	19.00
4	Colocasia	00.66	11.33	17.00
5	Brinjal	00.49	12.42	25.00
6	Onion	00.38	77.60	2.00
7	Okra	00.18	5.55	3.00
SPICES				
S. No	Crop	Area(000, ha)	Production(000, tones)	Productivity(t/ha)
1	Ginger	0.97	14.58	15.00
2	Chilli	0.52	4.16	8.00
3	Coriander	0.16	0.32	2.00
4	Turmeric	0.09	1.90	20.00
5	Garlic	0.04	0.29	6.00

2.5. Weather data

Month/ Weeks	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
		Maximum	Minimum	
26-01 Apr 08	0.00	27.0	17.3	41
02-08 Apr 08	0.00	38.9	20.0	39
09-15 Apr 08	0.00	39.6	22.6	31
16-22 Apr 08	0.00	40.0	25.1	36
23-29 Apr 08	0.00	42.0	25.8	24
30-06 May 08	0.00	42.1	26.5	36
07-13 May 08	0.00	42.2	27.4	40
14-20 May 08	0.00	42.8	28.8	42
21-27 May 08	0.00	41.9	28.6	32
28-03 Jun 08	3.00	41.8	26.5	42
04-10 Jun 08	13.50	43.3	31.1	39
11-17 Jun 08	78.30	33.0	16.9	54
18-24 Jun 08	390.30	39.3	27.7	66
25-01 Jul 08	54.30	36.3	26.2	74
02-08 Jul 08	90.30	32.3	24.7	80
09-15 Jul 08	59.00	31.9	24.3	82
16-22 Jul 08	36.90	34.9	25.8	73
23-29 Jul 08	71.30	34.6	25.3	78
30-05 Aug 08	100.50	34.0	24.9	80
06-12 Aug 08	74.00	32.8	24.8	82
13-19 Aug 08	64.60	21.4	24.6	82
20-26 Aug 08	25.30	31.2	24.0	79
27-02 Sep 09	13.50	24.9	24.9	80
03-09 Sep 08	0.00	33.0	24.7	79
10-16 Sep 08	0.00	34.5	23.8	75
17-23 Sep 08	0.00	35.2	25.1	71
24-30 Sep 08	0.00	30.5	22.5	84
October, 08	-	NA	NA	NA
November, 08	-	NA	NA	NA
December, 08	-	NA	NA	NA
January, 09	19.00	NA	NA	NA
February, 09	-	NA	NA	NA
March, 09	-	NA	NA	NA
Average Rainfall	1198.10			

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population(Lakh)	Production(mt)	Productivity
CATTLE			
<i>Indigenous</i>	5.97	1.59	1.7 lit./Animal/day
Buffalo	3.10	1.20	2.23 lit./Animal/ day
SHEEP			
<i>Indigenous</i>	0.44	-	
Goats	3.91	-	
POULTRY			
<i>Desi</i>	9.34	62.82 eggs	36.69 egg/year
<i>Inland</i>	2391 ha	2372.8 tonnes	10.50 /ha

2.7. Details of Operational area / Villages 2008-09

S.N.	District / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	T I K A M G A R H	Judawan Bamhari Hanumansagar Patha Brijpura Rigora Hira nagar Karmarai Surajpur Pahari Tilwaran Jamdar Devpur	Paddy Jowar Blackgram Soybean Sesame Wheat Gram Pea Mustard Guava Mango Ber Ginger Chilli Brinjal Tomato Animal Husbandry	Main problem of the village is low productivity of crops and animals. Lack use of improve women drudgery processing and value addition	<p>Paddy (i) Replacement of old varieties, (ii) Integrated Nutrient management (iii) Integrated Weed management</p> <p>Jowar: (i) Introduction of Hybrid/ High yielding varieties</p> <p>Soybean: (i) Imbalance dose of fertilizers (ii) Insect Pest incidence (iii) Weed infestation</p> <p>Sesame: (i) Replacement of old varieties and enhancement of seed replacement rate</p> <p>Black gram: High yielding yellow vein mosaic resistant varieties</p> <p>Wheat: (i) Balance dose of fertilizers (ii) Weed Management</p> <p>Gram: Management of <i>Helicoverpa armigera</i>, <i>Wilt</i></p> <p>Mustard: (i) Fertilizer Management (ii) Aphid Management (iii) High yielding variety</p> <p>Potato: (i) Adequate fertilizer (ii) Plant Protection (iii) Value addition and processing</p> <p>Chilli: (i) Disease management (ii) Introduction of hybrid/ High yielding variety (iii) Integrated nutrient management</p> <p>Ginger: (i) Seed replacement (ii) Integrated Disease management</p> <p>Ber: (i) Rejuvenations of old plant Local varieties and value addition</p> <p>Papaya, Mango and Guava: Varietals performance and Value addition</p> <p>Live Stock: (i) Disease management (ii) Green Fodder (iii) Breed improvement (iv) Stall feeding, Fodder production</p>

2.8. Priority thrust areas

S. No.	Crop	Thrust area
1	Soybean	(i) Imbalance dose of fertilizers (ii) Insect Pest incidence (iii) Weed infestation
2	Wheat	(i) Balance dose of fertilizers (ii) Weed management (iii) Water management (iv) Termite management
3	Black gram	Integrated disease management
4	Gram	Integrated pest management
5	Jowar	Introduction of High Yielding varieties
6	Paddy	(i) Replacement of old varieties (ii) Integrated nutrient management (iii) Integrated weed management (iv) Water management
7	Mustard	(i) Integrated nutrient management (ii) Integrated pest management
8	Sesame	(i) Replacement of old varieties and enhancement of seed replacement rate
9	Ginger	(i) Seed replacement (ii) Integrated disease management
10	Chilli	(i) Disease management (ii) Introduction of hybrid seeds, Nursery management
11	Potato	(i) Integrated nutrient management (ii) Integrated pest management (iii) Integrated disease management
12	Ber	Local varieties, top working and value addition
13	Papaya, Mango and Guava	(i) Value addition (ii) Introduction of New Varieties
14	Live Stock	(i) Disease management (ii) Green Fodder (iii) Breed improvement

3. Technical Achievements

3.1.(A). Abstract of Interventions under taken

S.N	Thrust Area	Identified Problem	OFT No.	FLD		Trainings		Training for Ext. Personnels		Ext. Act.	
				No.	Demon.	No.	Benef.	No.	Benef.	No.	Benef.
1	Crop management practices	Low yield	01	25(05)	61	10	222	03	81	13	11398
2	Seed Production	Non availability quality seed	-	-	-	07	720	-	-	-	-
3	Integrated pest management	Low yield	01	-	-	12	280	-	-	03	53
4	Integrated nutrient management	Low yield	01	12(03)	31	03	063	02	58	-	-
5	Vegetable production	Low yield	01	06(03)	30	10	277	02	89	18	1750
6	Fruit production	Low yield	-	01(01)	10	09	238	-	-	01	16
7	Spices production	Low yield	01	04(03)	30	09	176	-	-	01	16
8	Resource management practices	Degradation of resources	02	-	-	08	178	02	55	01	88
9	Women in agriculture	Nutritional in security low income, high drudgery	03	-	-	05	098	01	26	-	-
10	Value addition	Low income	01	-	-	09	179	-	-	03	44
11	Farm machinery	Low efficiency	-	06(01)	15	01	026	-	-	-	-
12	Production and use of organic inputs	Low soil fertility	-	-	-	07	152	-	-	-	-
13	Live production management	Low milk production	02	-	-	12	315	01	16	01	126
14	Information technology	Low efficiency in information delivery	01	-	-	01	018	-	-	01	200
TOTAL			14	54(16)	177	103	2982	11	325	41	13675

3.1.(B). On Farm Trial

OFT-1

1	Title		Assessment of ridge and furrow method in soybean
2	Problem diagnose		Yield reduction (21%) due to broadcasting method of sowing and erratic rainfall pattern in medium black soils (affected area 20,000 ha).
3	Technologies selected for assessment	T1=	Farmer's Practices (Broadcasting method)
		T2=	Ridge and furrow method
4	Source of technology		JNKVV 2002
5	Production System		Small CDR
6	Thematic area		Resource management practices
7	Micro Farming Situation		Rainfed – medium black soil
8	Performance of the Technology with performance indicators		Increase in yield (25.54 %), Number of pods / plant (20%) and test weight (20%).
9	Final recommendation for micro level situation		Ridge and furrow method of sowing under rainfed medium black soil
10	Constraints identified and feed back for research		Seed drill for this method of sowing is not available. In wet condition soil sowing not possible by the seed drill.
11	Process of farmers participation and their reaction		Field visit, Training, Demonstration: Farmer convince with the higher yield performance from ridge and furrow method

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Soybean	Rainfed	Yield reduction (21%) due to broadcasting method of sowing and erratic rainfall pattern in medium black soils (affected area 20,000 ha).	Assessment of ridge and furrow method in soybean.	05	Ridge and furrow method	No. of pod/plant Test weight Yield q/ha

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Ridge and furrow method increased yield by 25.54%.	In wet condition of soils sowing is not possible by the seed drill.
No of pods/ plant	32.00	40.00		
Test weight (g)	112.00	140.00		

Technology Assessed	Yield (kg/ha)	Net Return (Rs/ ha)	BC Ratio
13	14	15	16
Farmer's Practices (Broadcasting method)	1840	25613	2.96
Ridge and Furrow Method	2310	34783	3.53

OFT-2

1	Title	Assessment of SRI method of transplanting in paddy.
2	Problem diagnose	Low yield (575 kg/ha) due to broadcasting method of sowing under upland condition (affected area 6000 ha).
3	Technologies selected for assessment	T ₁ = Farmer's Practices (Broadcasting of seed)
		T ₂ = SRI method 10 to 12 days old seedlings, one seedling per hill, spacing 25x25 cm
4	Source of technology	ANGARU,2004
5	Production System	-
6	Thematic area	Crop Production Management(CPM)
7	Micro Farming Situation	Medium soils - Rainfed
8	Performance of the Technology with performance indicators	Increased in yield by 124% ,No. of tiller /plant by 207% and Test weight by 34%
9	Final recommendation for micro level situation	SRI method of transplanting of paddy in medium rainfed condition.
10	Constraints identified and feed back for research	Difficulty faced during transplanting at proper distance due to unavailability of suitable paddy planting marker. Higher labor required for transplanting and weeding.
11	Process of farmers participation and their reaction	Field visit, Training, Demonstration, Field day, Crop seminar: Farmer's convinced with higher yield performance by SRI method.

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Paddy	Rainfed	Low yield (575 kg/ha) due to broad- casting method of sowing under upland condition (affected area 8000 ha).	Assessment of SRI Method of transplanting in paddy	5	SRI method 10 to 12 days old seedlings, one seedling per hill, spacing 25x25 cm.	No. of tillers / plant Test weight (g)

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	SRI-10 to 12 days old seedlings, one seedling /hill, spacing 25x25 cm increased yield by 124%	Higher labor required for transplanting and weeding.
No. of tillers /plant	13.00	40.00		
Test weight(g)	29.25	39.20		

Technology Assessed	Yield (kg/ha)	Net Return (Rs/ha)	BC Ratio
13	14	15	16
Farmer's Practices (Direct Seedling or Broad Casting Method)	1475	17700	2.21
SRF method 10 to 12 days old seedlings, one seedling per hill, spacing 25x25 cm.	3314	39768	2.96

OFT-3

1	Title	Assessment of short duration sorghum variety JJ-1041	
2	Problem diagnose	Low yield (713 q/ha) of sorghum due to use of degenerated seed long duration varieties (affected area 4000 ha).	
3	Technologies selected for assessment	T ₁ =	Farmer's Practices (Hathi khoota)
		T ₂ =	Improved Variety (JJ-1041)
4	Source of technology	JNKVV 2000	
5	Production System	-	
6	Thematic area	Crop Management Practices (CMP)	
7	Micro Farming Situation	Rainfed – heavy soils	
8	Performance of the Technology with performance indicators	Increase in grain yield (46.07%), decrease in fodder yield (31.54%), Less days taken to maturity (37 days).	
9	Final recommendation for micro level situation	Sorghum variety JJ-1041 under rainfed condition in heavy black soils	
10	Constraints identified and feed back for research	Unavailability of quality seeds preferred white color seeded, curved and compact cobs.	
11	Process of farmers participation and their reaction	Field visit, Demonstration, Training: Farmer's convinced with the performance increased grain yield by 46.06% and 37 days less to maturity.	

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Jowar	Rainfed	Low yield (713 q/ha) of sorghum due to use of degenerated seed long duration varieties (affected area 4000ha).	Assessment of short duration sorghum variety JJ-1041	15	Improved Variety (JJ-1041)	Duration (days) Fodder yield (q/ha)

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Variety JJ-11041 increased yield by 46.07%	Preferred white color seeded and curved and compact cobs.
Duration (Days)	151.00	113.00		
Fodder Yield (q/ha)	62.84	43.02		

Technology Assessed	Yield (kg/ha)	Net Return (Rs/ha)	BC Ratio
13	14	15	16
Farmer's Practices (Hathi khoota)	2151	3316	1.34
Improved Variety (JJ-1041)	3142	8700	1.85

OFT-4

1	Title	Assessment of integrated nutrient management in sesame	
2	Problem diagnose	Poor yield (350kg/ha) due to no use of fertilizer (0:0:0 kg/ha) (affected area 80%)	
3	Technologies selected for assessment	T ₁ =	Farmer's Practices (without fertilizer)
		T ₂ =	60:40:20:30 NPKS kg/ha + Azoto + PSB @ 2.5 kg/ha
4	Source of technology	JNKVV 2002	
5	Production System	-	
6	Thematic area	Integrated Nutrient Management	
7	Micro Farming Situation	Rainfed : Medium soils	
8	Performance of the Technology with performance indicators	Increase in yield by 169.85%, capsule / plant (83.90%), Test weight (111.50%).	
9	Final recommendation for micro level situation	60:40:20:30 NPKS kg/ha + Azoto + PSB @ 2.5 kg/ha for rainfed medium soils	
10	Constraints identified and feed back for research	Unavailability of complex fertilizer in the local market: Farmers faced difficulty in application of complex fertilizer.	
11	Process of farmers participation and their reaction.	Field visit, Demonstration, Training, Field day: Farmer's convinced with the performance of technology increased grain yield by 169.85%	

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Sesame	Rainfed	Poor yield (350kg/ha) due to no use of fertilizer (0:0:0 kg/ha) (affected area 80%)	Assessment of Integrated Nutrient Management in sesame	05	60:40:20:30 NPKS kg/ha + Azoto + PSB @ 2.5 kg/ha	No. of Capsule/ plant Test weight (gm)

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	60:40:20:30 NPKS kg/ha + Azoto + PSB @ 2.5 kg/ha increased yield by 169.85%	Farmer's faced difficulty in placement of fertilizer.
Capsules / plant	87.00	160.00		
Test weight (g)	1.13	2.39		

Technology Assessed	Yield (kg/ha)	Net Return (Rs/ha)	BC Ratio
13	14	15	16
Farmer's Practices (without fertilizer)	272	9429	2.36
60:40:20:30 NPKS kg/ha + Azoto + PSB @ 2.5 kg/ha	734	36349	5.72

OFT-5

1	Title	Assessment of integrated management of viral disease in chilli
2	Problem diagnose	Reduction(40%) in yield due to heavy incidence of viral disease (affected area 200 ha)
3	Technologies selected for assessment	T ₁ = Farmer's Practices (indiscriminate use of insecticides)
		T ₂ = Seed treatment with <i>T. viride</i> @ 1 kg/ha + spray of Imadachlopid @ 125 ml /ha + 1% spray of Sulphex
4	Source of technology	JNKVV 2005
5	Production System	-
6	Thematic area	Integrated Disease Management
7	Micro Farming Situation	Irrigated Medium soils
8	Performance of the Technology with performance indicators	Increase in yield by 82.78%, Plant height (77.77%), No. of Fruits / Plant (93.93%), Decrease in disease incidence (72.22%)
9	Final recommendation for micro level situation	Seed treatment with <i>T. viride</i> @ 1 kg/ha + spray of imadachlopid @ 125 ml /ha + 1% spray of Sulphex.
10	Constraints identified and feed back for research	Quality <i>Tricoderma viride</i> and Sulfex not available in local Market, farmer's wants viral disease resistant variety
11	Process of farmers participation and their reaction	Field visit, Demonstration, Training : Farmer convinced with the performance of technology increased pod yield by 82.78% and due to effective control of viral diseases

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Chilli	Irrigated	Reduction (40%) in yield due to heavy incidence of viral disease (affected area 200 ha)	Assessment of integrated management of viral disease in chilli	05	Seed treatment with <i>T. viride</i> @ 1 kg/ha + spray of Imadachlopid @ 125 ml /ha + 1% spray of Sulphex	Plant height (cm) No. of Fruits / Plant Disease incidence (%)

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Seed treatment with <i>T. viride</i> @ 1 kg/ha + spray of Imadachlopid @ 125 ml /ha + 1% spray of Sulphex increase in yield by 82.78%	Farmer's wants viral disease resistant variety
Plant height (cm)	27.00	48.00		
No. of Fruits / Plant	33.00	64.00		
Disease incidence(%)	54.00	15.00		

Technology Assessed	Yield (kg/ha)	Net Return (Rs/ha)	BC Ratio
13	14	15	16
Farmer's Practices (indiscriminate use of insecticides)	9060	36184	1.99
Seed treatment with <i>T. viride</i> @ 1 kg/ha + spray of Imadachlopid @ 125 ml /ha + 1% spray of Sulphex	16560	95284	3.56

OFT-6

1	Title	Assessment of integrated management of fruit and shoot borer in brinjal
2	Problem diagnose	Reduction(37%) in yield due to heavy infestation of fruit and shoot borer in brinjal, (affected area 175 ha)
3	Technologies selected for assessment	T ₁ = Farmer's Practices (indiscriminate use of insecticides)
		T ₂ = Nipping of infested twings/ fruits, spray of Endosulfan 525g a.i./ha in 1000 lit. of water at 15 days interval
4	Source of technology	JNKVV 2002
5	Production System	-
6	Thematic area	Integrated Pest Management
7	Micro Farming Situation	Irrigated medium soils
8	Performance of the Technology with performance indicators	Increase in yield by 31.87%, Plant height (18.75%), No. of Fruits / Plant (50%), Decrease in pod borer infestation (72.30%)
9	Final recommendation for micro level situation	Nipping of infested twings / fruits, spray of Endosulfan 525g a.i./ha in 1000 lit. of water at 15 days interval
10	Constraints identified and feed back for research	Unavailability of pheromone traps, Farmer's wants pod borer resistant variety.
11	Process of farmers participation and their reaction	Field visit, Demonstration, Training : Farmer convinced with the performance of technology increased pod yield by 31.87%

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Brinjal	Irrigated	Reduction(37%) in yield due to heavy infestation of fruit and shoot borer in brinjal, affected area (175 ha)	Assessment of Integrated management of Fruit and Shoot borer in brinjal	05	Nipping of infested twings/ fruits, spray of Endosulfan 525g a.i./ha in 1000 lit. of water at 15 days interval	Plant height (cm) No. of Fruits / Plant Pest Infestation (%)

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Nipping of infested twings/ fruits, spray of Endosulfan 525g a.i./ha in 1000 lit. of water at 15 days interval increased yield by 87 %.	Farmer's wants fruit and shoot borer resistant variety.
Plant height (cm)	80.00	95.00		
No. of Fruits / Plant	10.00	15.00		
Pest Infestation (%)	65.00	18.00		

Technology Assessed	Yield (kg/ha)	Net Return Rs/ha	BC Ratio
13	14	15	16
Farmer's Practices (indiscriminate use of insecticides)	16000	31790	1.98
Nipping of infested twings/ fruits, spray of Endosulfan 525g a.i./ha in 1000 lit. of water at 15 days interval	21100	48177	2.33

OFT-7

1	Title	Assessment of integrated management of pod borer in gram	
2	Problem diagnose	Reduction (32%) in yield due to heavy incidence of pod borer (affected area 30,000 ha)	
3	Technologies selected for assessment	T1=	Farmer's Practices (indiscriminate use of insecticide)
		T2=	Pheromone trap + Bird perchers at 20 feet distance in all over the field + Neem oil @ 10ml/lit. water + quanalphos @ 1.5ml/lit. of water.
4	Source of technology	JNKVV 2002	
5	Production System	-	
6	Thematic area	Integrated Pest Management	
7	Micro Farming Situation	Irrigated heavy soils	
8	Performance of the Technology with performance indicators	Increase in yield (33.71%), Number of pods(54.76%), decrease in damage of grain(80.95%).	
9	Final recommendation for micro level situation	Pheromone trap + Bird perchers at 20 feet distance in all over the field + Neem oil @ 10ml/lit. water + Endosulphan @ 1.5ml/lit. of water for irrigated heavy soils.	
10	Constraints identified and feed back for research	Unavailability of pheromone trap in the local market and farmer's faced difficulty in use of pheromone traps and bird perchers at the field, There is need to pod borer resistant variety.	
11	Process of farmers participation and their reaction	Field visit, demonstration, training, Farmer's convinced with the technology increased in yield by 33.71% and decrease in damage of grain (80.95%).	

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Gram	Irrigated	Reduction (32%) in yield due to heavy incidence of pod borer (affected area 30,000 ha)	Assessment of integrated management of pod borer in gram	06	Pheromone trap + Bird perchers at 20 feet distance in all over the field + Neem oil @ 10ml/lit. water + quanalphos @ 1.5ml/lit. of water.	No. of pods/ Plant Damage %

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Pheromone trap + Bird perchers at 20 feet distance in all over the field + Neem oil @ 10ml/lit. water + quanalphos @ 1.5ml/lit. of water yield increase by 33.71%	Farmer's want pod borer resistant variety.
No of Pods/Plant	42.00	65.00		
Damage (%)	63.00	12.00		

Technology Assessed	Yield (kg/ha)	Net Return (Rs/ha)	BC Ratio
13	14	15	16
Farmer's Practices (indiscriminate use of insecticide)	1661	25542	3.32
Pheromone trap + Bird perchers at 20 feet distance in all over the field + Neem oil @ 10ml/lit. water + quanalphos @ 1.5ml/lit. of water.	2221	35598	3.68

OFT-8

1	Title	Assessment of stacking practice in tomato
2	Problem diagnose	Less return/ unit area due to lodging of plant, fruits come directly contact with the soil resulting rotting (35%) in fruits (affected area 430 ha).
3	Technologies selected for assessment	T1= Farmer's Practices(No stacking)
		T2= Stacking with Bamboo
4	Source of technology	JNKVV 2000
5	Production System	-
6	Thematic area	Value addition
7	Micro Farming Situation	Irrigated medium soils
8	Performance of the Technology with performance indicators	Increase in yield (30.08%), no. of fruits/plant (46.15%), decrease in rotted fruits (81.48%), disease incidence (72.13%).
9	Final recommendation for micro level situation	Stacking with bamboo and wire in irrigated- medium soil
10	Constraints identified and feed back for research	Lack of availability of sticks and wire, Time consuming practice required more labours,
11	Process of farmers participation and their reaction	Field visit, Demonstration, Training: Farmer convince with the performance of technology increased fruits yield by 30.08%.

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment			
1	2	3	4	5	6	7			
Tomato	Irrigated	Less return/ unit area due to lodging of plant, fruits come directly contact with the soil resulting rotting (35%) in fruits (affected area 430 ha).	Assessment of stacking practice in tomato	05	Stacking with Bamboo	<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 0;"> <tr> <td style="width: 100%;">No. of affected fruits / Plant</td> </tr> <tr> <td>No. of Fruits / Plant</td> </tr> <tr> <td>Disease incidence (%)</td> </tr> </table>	No. of affected fruits / Plant	No. of Fruits / Plant	Disease incidence (%)
No. of affected fruits / Plant									
No. of Fruits / Plant									
Disease incidence (%)									

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Stacking with bamboo and wire increased by 30.08 % yield	Time consuming practice required more labours
No. of affected fruits / Plant	27.00	5.00		
No. of Fruits / Plant	35.00	65.00		
Disease incidence (%)	61.00	17.00		

Technology Assessed	Yield (kg/ha)	Net Return (Rs/ha)	BC Ratio
13	14	15	16
Farmer's Practices (No stacking)	15620	43885	2.28
Stacking with Bamboo	20320	64367	2.72

OFT-9

1	Title	Assessment of marigold variety- Pusa Narangi	
2	Problem diagnose	Low income of farm women due to use of local marigold variety - Tarru	
3	Technologies selected for assessment	T ₁ =	Farmer's Practices (local variety- Tarru)
		T ₂ =	Improved variety (Pusa Narangi)
4	Source of technology	IARI- 1996	
5	Production System	-	
6	Thematic area	Women in agriculture	
7	Micro Farming Situation	Irrigated medium soils	
8	Performance of the Technology with performance indicators	Increase in yield (60.76%), No. of flower/plant (50%), Weight of flower/plant (48.99%)	
9	Final recommendation for micro level situation	Improved variety (Pusa Narangi) for income generation in irrigated medium soils.	
10	Constraints identified and feed back for research	Non-availability of Improved variety seeds, Farmer's wants medium size flower, dark yellow color variety.	
11	Process of farmers participation and their reaction	Demonstration, Training : Farm women convinced with the performance of variety increased flower yield by 60.76% and quality of flowers.	

Crop	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Marigold	Irrigated	Low income of farm women due to use of local marigold variety - Tarru	Assessment of marigold variety- Pusa Narangi	05	Improved variety (Pusa Narangi)	No. of Flower / Plant Yield (q/ha)

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Improved variety (Pusa Narangi) increase in flower yield by 60.76%	Farmer's wants Medium size flower, dark yellow color variety.
No. of Flower / Plant	50.00	75.00		
Weight of flower/plant (g)	249.00	371.00		

Technology Assessed	Yield (kg/ha)	Net Return (Rs/ha)	BC Ratio
13	14	15	16
Farmer's Practices (local variety- Tarru)	13000	44560	2.33
Improved variety (Pusa Narangi)	20960	76320	2.54

OFT-10

1	Title	Assessment of backyard nutritional kitchen garden
2	Problem diagnose	Food and nutritional insecurity of farm women due to unavailability of functional fruits and vegetables at household level.
3	Technologies selected for assessment	T1 = Farmers practice (Unplanned Nutritional garden).
		T2 = Planned round the year availability of Nutritive vegetables & Fruits in the garden (25 x 10 m)
4	Source of technology	ICAR 2005
5	Production system	-
6	Thematic area	Women in Agriculture
7	Micro-farming system	Irrigated – use of backyard land
8	Performance of the Technology with parameter/indicators	Production of vegetable yield (180.40 kg/plot) in 1 season , reduction(80%) in malnutrition
9	Final recommendation for micro level situation	Planned round the year availability of Nutritive vegetables & Fruits in the garden (25 x 10 m)
10	Constraints identified and feedback for research	Unavailability of quality vegetable seeds
11	Process of farmers participation and their reaction	Trainings, meetings and demonstration, farm women convinced with the performance of the technology.

Enterprises	Farming situation	Problem Diagnosed	Title of OFT	No. of Trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Nutritional garden	Irrigated	Food and nutritional insecurity of farm women due to unavailability of functional fruits and vegetables at household level.	Assessment of backyard nutritional kitchen garden	05	Planned round the year availability of nutritive vegetables	Yield kg/plot

Data on the parameter		Results of assessment	Feedback from the farmer
8		9	10
Vegetables Production	Kg/ 18 sq. m each Bed	It shows daily consumption of vegetable has ensured accessibility ,food security and eliminate the micronutrient deficiencies through fruits and vegetables	Farm women convinced and ready to adopt the technology
Palak	08.00		
Okra	11.50		
Brinjal	18.30		
Bottle Gourd	23.40		
Tomato	21.20		
Chili	12.50		
Bitter Guard	20.20		
Potato	32.30		
Onion	25.70		
Fenugreek	12.30		

*According to NIN, Hyderabad basic diet requirement for a five member family Cereals (425gm), Pulses(70gm), Oils(35gm), Vegetables (985gm) and Milk (214gm).

Technology Assessed	*Production per unit (kg/250 sq.m)	Reduction in Malnutrition (%)
13	14	15
Unplanned Nutritional Garden	Vegetables production 185.4 kg from 180 sq meter	80% malnutrition among farm women was eliminated by this technology.
Planned round the year availability of Nutritive in the garden (25x10m)		

OFT-11

1	Title	Assessment of drudgery reduction and increase efficiency of farm women involved in harvesting of soybean through serrated sickle.
2	Problem diagnose	Low efficiency and high drudgery of farm women in harvesting of soybean.
3	Technologies selected for assessment	T ₁ = Farmer's practice (Use of sickle)
		T ₂ = Use of serrated sickle
4	Source of technology	CIAE- 1998
5	Production System	-
6	Thematic area	Women in Agriculture
7	Micro Farming Situation	Rainfed
8	Performance of the Technology with performance indicators	Use of serrated sickle saving time by 28.57%, and also increase efficiency by 42.85%.
9	Final recommendation for micro level situation	Use of serrated sickle for rainfed – soybean cultivation.
10	Constraints identified and feed back for research	Unavailability of serrated sickle in local market.
11	Process of farmers participation and their reaction	Field visit, Demonstration, Training, Field day: Farm women convinced with the use of serrated sickle increased efficiency by 42.85% and time saving up to 28.57%.

Enterprises	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Serrated sickle	Rainfed	Low efficiency and high drudgery of farm women in harvesting of soybean.	Assessment of drudgery reduction and increase efficiency of farm women involved in harvesting of soybean through improved sickle.	10	Use of serrated sickle	Time required (hr) for 1 ha harvesting Area covered (ha) / worker

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Use of serrated sickle saving time by 28.57%, and also increase efficiency by 42.85% over local sickle.	Hand of serrated sickle is short that difficult holding in hand.
Time required (hr) for 1 ha harvesting	56.00	40.00		
Area covered (ha) / worker	0.14	0.20		

Technology Assessed	Efficiency (%)
13	14
Farmer's practice (Use of sickle)	Use of serrated sickle by farm women saving time by 28.57%, and also increase efficiency by 42.85% over local sickle.
Use of serrated sickle	

OFT-12

1	Title	Assessment of the performance of mineral supplements on milk yield of cross-bred Cows
2	Problem diagnose	Milch Cows depend on grazing and imbalance ration without any Concentrate feeding resulting poor milk (1.7Lt./day / animal) affected milch animals (95% of the population).
3	Technologies selected for assessment	T1 = Farmer's Practices (No stall feeding) T2 = Feeding mineral mixture @ 30-40 g/ day / animal from 8 month of Pregnancy till mid lactation
4	Source of technology	IVRI 2002
5	Production System	-
6	Thematic area	Live stock production management
7	Micro Farming Situation	-
8	Performance of the Technology with performance indicators	Increase in yield by 43.23% Lactation period, Intercalving period, milk yield / lactation 30-40 gram mineral mixture per animal per day.
9	Final recommendation for micro level situation	Feeding mineral mixture @ 30-40 g/ day / animal from 8 month of Pregnancy till mid lactation
10	Constraints identified and feed back for research	Laziness of farmers to purchase and feed to their animals, Farmers must be motivated to adopt the mineral mixture.
11	Process of farmers participation and their reaction	Field visit, Training, Farmer's convinced with the application of the Mineral mixture as it give remunerative results.

Enter prises	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Live stock	Rainfed	Milch Cows depend on grazing and imbalance ration without any Concentrate feeding resulting poor milk (1.7Lt./day / animal) affected milch animals (95% of the population).	Assessment of the performance of mineral supplements on milk yield of cross-bred Cows	10	Feeding mineral mixture @ 30-40 g/ day / animal from 8 month of Pregnancy till mid lactation increase milk yield by 43.23%	SNF Fate % Lactation period(days) Intercalving period(Month)

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	30-40 gram mineral mixture / day / animal gave 43.23 % higher yield over farmers practices	Mineral mixture must be available at subsidized rate
SNF	8.50	8.68		
Fat %	4.80	4.70		
Lactation period(days)	317.50	312.50		
Intercalving period(Month)	12.65	11.85		

Technology Assessed	Milk Production (Litre/ lactation)	Net Return(Rs. / Lactation)	BC Ratio
13	14	15	16
Farmer's Practices (No stall feeding)	1013	4356	1.55
Feeding mineral mixture @ 30-40 g/ day / animal from 8 month of Pregnancy till mid lactation	1451	9252	2.13

OFT-13

1	Title	Assessment of the performance of regular de worming on buffalo Calves mortality	
2	Problem diagnose	High mortality of buffalo calves due to Ascaris (60%)	
3	Technologies selected for assessment	T1 =	Farmer's Practices (No deworming)
		T2 =	Deworming of Buffalo Calves with Piperazine 40ml per Calves at the Age of first week and to be repeated after 3 weeks
4	Source of technology	IVRI 2002	
5	Production System	-	
6	Thematic area	Live stock production management	
7	Micro Farming Situation	-	
8	Performance of the Technology with performance indicators	Decrease mortality (30%), increase body weight (13.07%)	
9	Final recommendation for micro level situation	Piperazine 40ml per Calves at the age of first week and to be repeated after 3 weeks	
10	Constraints identified and feed back for research	Deworming not in practice. Farmer's must be motivated to adopt the deworming in buffalo calves	
11	Process of farmers participation and their reaction	Field visit, Training, Farmer's convinced with the application of the piperazine as it reduce mortality in buffalo calves.	

Enterprises	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Livestock	Rainfed	High mortality of buffalo calves due to Ascaris (60%)	Assessment of the performance of regular de worming on buffalo Calves mortality	10	Piperazine 40ml/ calves at the age of first week and to be repeated after 3 weeks	Mortality (%) Body weight (%)

Data on the parameter			Results of assessment	Feedback from the farmer
8			9	10
Parameters	Farmers Practice	Technology Assessed	Piperazine 40ml/ calves at the age of first week and to be repeated after 3 weeks 30% mortality reduced in buffalo calves	Deworming done by government as vaccination done in animals
Mortality (%)	50.00	20.00		
Body weight at 6 month in kg	74.8	87.87		

Technology Assessed	Body weight(in Kg)	Body weight increase over non-deworming calves	Mortality reduction %
13	14	15	16
Farmer's Practices (No deworming)	74.8	13.07 %	30%
Deworming of Buffalo Calves with Piperazine 40ml per Calves at the Age of first week and to be repeated after 3 weeks	87.87		

OFT-14

1	Title	Assessment of the information technology i.e. Kisan Mobile Sandesh.
2	Problem diagnose	Low efficiency of existing rural information technology delivery system.
3	Technologies selected for assessment	T1 = Farmer's practice (Receiving no KMS).
		T2 = ITC Based alternate rural information delivery system through KMS.
4	Source of technology	KVK Baramati (Maharashtra)
5	Production system	--
6	Thematic area	Information Technology
7	Micro-farming system	
8	Performance of the Technology with parameter/indicators	
9	Final recommendation for micro level situation	
10	Constraints identified and feedback for research	Farmer's want message in Hindi.
11	Process of farmers participation and their reaction	

Technology	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
KMS		Low efficiency of existing rural information technology delivery system.	Assessment of the information technology i.e. Kisan Mobile Sandesh.	198	Farmer's receiving KMS	Effectiveness of source of IT. Understanding about message. Requirement of sanded message. Save the losses through apply message.

S. N.	Statements asked from KMS Users	Source of information KMS			Total Score	Other sources of information (198)
		Farmers (98)	Extn. Personnel's (85)	Agro. Input Providers (15)		
1	Received need based information	98.00	84.00	15.00	187	103
2	Spend few second for receive information	98.00	85.00	15.00	198	56
3	Easy to understand	50.00	85.00	15.00	150	
4	Appropriate time of information	98.00	85.00	15.00	198	57
5	Develop information bank	78.00	85.00	15.00	178	-
6	Increase social contact & importance	52.00	84.00	14.00	150	59
7	Save time and money	50.00	85.00	15.00	150	52
8	KMS also work as a reminder	80.00	83.00	15.00	178	28
9	Possible for giving feedback	62.00	80.00	15.00	157	64
10	Strong linkage with KVK	96.00	81.00	12.00	189	57
	Total	762.00	837.00	146.00	1745	589
	Mean Score	76.20	83.70	14.60	174.5	58.9

3.2 Achievements of Front Line Demonstrations (FLD)

Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2008-09 and recommended for large scale adoption in the district

S No	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
1	SOYBEAN					
	Variety	JS-93-05	Training and demonstration	80	1800	16000
	Integrated Nutrient Management	20 : 60 : 20 NPK kg/ha, + Rhizobium + PSB @ 20 g/kg of seed	Training and demonstration	04	280	300
	Integrated Pest Management	Tryzophos, 2-3 ml / lit of water,	Training and demonstration	40	200	500
2	MUSTARD					
	Variety	Pusa jai Kisan	Training and demonstration	40	200	430
	Integrated Nutrient Management	80:40:20 NPK kg/ha, + PSB @ 20 g/kg of seed	Training and demonstration	30	150	300
	Integrated Pest Management	Imidachloprid, 5 ml/ 15 lit of water	Training and demonstration	25	300	450
3	BLACKGRAM					
	Varietal Performance	LBG-20	Training and demonstration	100	600	8000
4	GRAM					
	Varietal Performance	JG-11	Training and demonstration	10	90	150
	Integrated Pest Management	Quinolphos 25 EC, 2-3 ml/lit of water + bird percher100/ha	Training and demonstration	35	250	400

Details of FLDs implemented during 2008-09

3.2.(A). FLDs on Oilseeds are Pulse Crops

OILSEED CROPS

S.N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Soybean	Crop management practice	Line sowing, 20:60:20:30 NPKS kg/ha+ Rhizo+ PSB @ 20 g/Kg Seed, Summer deep ploughing+ Light Trap + Bird percher @ 50 per ha + Spray of Trizophos@ 1000ml/ha	Kharif 2008-09	5	5	1	11	12	
2	Mustard	Crop management practice	Variety (Pusa Agrani) 80:40:20:30 NPKS kg/ha + Azoto + PSB @ 2.5 kg/ ha each Imidachloroprid @ 5 ml/15 lit of water.	Rabi 2008-09	5	5	3	9	12	

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Soybean	Kharif	Rainfed	Heavy	186	23	260	Wheat	Last week of June 2008	1 st week of Oct. 2008	1198	35
Mustard	Rabi	Irrigated	Medium	196	8	242	Soybean	3 rd and last week of Oct.2008	Last week of Feb.09 to Ist week of March 2009	1198	35

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmer	Area (ha.)	Demo. Yield (Q/ha)			Local Check	Increase in yield (%)	Data on parameter (No. of pods/plant)	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Soybean	INM + IPM	JS 93-05	12	5	23.00	18.50	21.08	11.54	82.66	63	45
2	Mustard	INM + IPM	Pusa Agrani	12	5	20.40	17.00	18.56	8.97	106.91	150	114

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	Demo.	LC
14	15	16	17	18	19	20	21
13727	10605	44268	24234	30541	13629	3.22	2.28
11995	8890	37064	17868	25125	9050	3.09	2.01

Analytical Review of component demonstrations (details of each component for rained / irrigated situations to be given separately for each season).

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
		1. Seed/Variety				
		2. Bio-fertilizer				
		3. Fertilizer management	NA			
		4. Plant Protection				
		5. Combination of components (Please specify)				

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Short duration varieties of Soybean.
2	Sowing implement of Mustard.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Farmer convinced the technology of Soybean & Mustard
2	

Extension and Training activities under FLD

S. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
SOYBEAN					
1	Field days	1	25.09.08	93	
2	Farmers Training	3	01.06.08	25	
			25.06.08	25	
			04.08.08	20	
3	Media coverage	1	June 08	Mass	
4	Training for extension functionaries	1	17.6.08	25	
MUSTARD					
1	Field days	1	24.12.08	60	
2	Farmers Training	1	28.09.08	29	
3	Media coverage	1	Feb 09	Mass	
4	Training for extension functionaries	1	25.09.08	27	

PULSE CROPS

Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
				Proposed	Actual	SC/ ST	Others	Total	
Blackgram	Crop management practice	.Variety IPU-94-1, 20:60:20 + 25 NPKS kg./ha.+ Rhizo+ PSB@ 20g/kg seed 1 hand weeding at 20-25 DAS	Kharif 2008-09	5	5	1	11	12	
Gram	Varietal performance + IPM	Variety JG -11, Seed treatment by Tricoderma viride @ 5g/kg seed + Deep ploughing + Feromone trap + Bird percher @ 50 / ha + Spray of quanalphos @ 2ml/ lit of water.	Rabi 2008-09	5	5	0	12	12	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Blackgram	Kharif	Rainfed	Medium	158	23	187	Wheat	Last week of June 2008	Last week of Sept. 2008	1198	35
Gram	Rabi	Irrigated	Heavy	262	8	260	Soybean	3 rd & 4 th week of Oct. 2008	Last week of Feb. 09 to 1st week of March 2009	1198	35

Performance of FLD

S.No	Crop	Technology Demonstrated	Variety	No. of Farmer	Area (ha.)	Demo. Yield (Q/ha)			local Check	Increase in yield (%)	Data on parameter (No. of pods)	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Blackgram	CMP	IPU-94-2	12	5	12.25	8.60	10.65	4.40	144	60	31
2	Gram	Varietal + IPM	JG-11	12	5	24.10	18.50	21.80	12.90	69	52	38

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	Demo	LC
14	15	16	17	18	19	20	21
10784	6239	24794	8624	14010	2385	2.29	1.38
13264	8943	47960	28380	34696	19437	3.61	3.17

Analytical Review of component demonstrations (details of each component for rained / irrigated situations to be given separately for each season).

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
		1. Seed/Variety	NA			
		2. Bio-fertilizer				
		3. Fertilizer management				
		4. Plant Protection				
		5. Combination of components (Please specify)				

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Yellow vein mosaic resistant varieties
2	There is need to develop varieties of having resistant to caterpillar

Farmers' reactions on specific technologies

S. No	Feed Back
1	Best, the farmers convened the varieties
2	Best, the farmers convened the technology

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
BLACKGRAM					
1	Field days	1	30.09.08	64	
2	Farmers Training	2	03.06.08	20	
			14.06.08	22	
3	Media coverage	1	July 2008	Mass	
4	Training for extension functionaries	1	07.07.08	30	
GRAM					
1	Field Day	1	18.02.09	24	
2	Farmers Training	3	12.11.08	30	
			10.09.08	25	
			03.02.09	25	
3	Media coverage	1	Feb 09	Mass	
4	Training for extension functionaries	1	18.09.08	24	

3.2.(B). Front Line Demonstrations Other than Oilseed and Pulses FLD-1

1	Title	Sulphur integration with RDF in Soybean	
2	Crop	Soybean	
3	Season	Kharif – 2008-09	
4	Irrigation availability	Rainfed	
5	Soil Type	Heavy soil	
6	Problem Identified	Farmer's do not use of sulphur with RDF, resulting reduction(22%) in yield (affected area 300ha)	
7	Thematic Area	INM	
8	Detail of Farmers' Practices	NPK (20:60:20 kg/ha)	
9	Name of the Technology	Recommended dose of fertilizer + sulphur	
10	Detail of Technology	20:60:20 kg/ha+ <i>Rhizobium</i> and <i>PSB</i> @ 20g/kg of seed+ 30 kg sulphur/ha	
11	Source of Technology (Year)	JNKVV,2000	
12	Name of variety used (indicate if hybrid if used)	Variety	JS-93-05
		Hybrid	-
13	Characteristics of the variety	Short duration variety 90-100 days.	
14	Source of variety (Year of Release)	JNKVV,2005	
15	Total area under demonstration (ha)	5.0	
16	Number of demonstration	10	
17	Previous Crop	Wheat	
18	Sowing Time	27/06/08	
19	Harvesting time	05/10/08	
20	Rainfall during crop period (mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	25.00	
23	Minimum Yield Under Demonstration (q/ha)	21.00	
24	Average Yield Under Demonstration (q/ha)	23.05	
25	Maximum Yield Under Local Check (q/ha)	19.50	
26	Minimum Yield Under Local Check (q/ha)	17.00	
27	Average Yield Under Local Check (q/ha)	18.00	
28	Increase in yield over local check	+ 28.05 %	
29	Performance indicator-1	Number of pods /plant	
30	Performance Indicator-1 under FLD	42.00	
31	Performance Indicator-1 under Local Check	33.00	
32	Change in performance indicator-1	+ 27.27 %	
33	Performance indicator-2	1000 grain weight (g)	
34	Performance Indicator-2 under FLD	135.00	
35	Performance Indicator-2 under Local Check	101.00	
36	Change in performance indicator-2	+ 33.36 % (109)	
37	Cost of Critical Inputs under FLD (Rs/ha)	6,333	
38	Cost of Critical Inputs under Local Check (Rs/ha)	5,633	
39	Cost of Cultivation under FLD* (Rs/ha)	12,727	
40	Cost of Cultivation under LC** (Rs/ha)	12,027	
41	Gross Return under FLD (Rs/ha)	Grain 48405 + straw- 1260 = 49665	
42	Gross Return under LC (Rs/ha)	Grain 37800 + straw- 1080 = 38880	
43	Net Return under FLD (Rs/ha)	36,938	
44	Net Return under LC (Rs/ha)	26,853	
45	BC ratio Under Demonstration	3.90	
46	BC ratio under Local Check	3.23	
47	Technical Feedback	Sulphur containing fertilizers are not available in the market	
48	Farmers Reaction	Farmers convinced with application of sulphur	
49	Horizontal spread - No. of villages	2	
50	Horizontal spread - No. of farmers	21	
51	Horizontal spread - Area in ha	60	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
A	Land Preparation	2,100	2,100
B	Seed	1,988	1,988
C	Seed treatment & Inoculation	200	200
D	Sowing	700	700
E	Fertilizers & Manure	1,894	1,194
F	Weed Control	1,600	1,600
G	Inter culture	270	270
H	Irrigation	-	-
I	Insect pest control	800	800
J	Disease control	200	200
K	Harvesting	1,320	1,320
L	Threshing	1,500	1,500
M	Others	155	155
53	Total	12,727	12,027
	Any Other Information (Sale rate of soybean)	Grain (Rs.2100/qtt), Straw (Rs.40/qtt)	

FLD-2

1	Title	Integrated Management of soft rot in Ginger	
2	Crop	Ginger	
3	Season	Kharif-2008-09	
4	Irrigation availability	Irrigated	
5	Soil Type	Sandy loam	
6	Problem Identified	Low yield (35%) due to heavy incidence of soft rot (affected area 800ha)	
7	Thematic Area	IDM	
8	Detail of Farmers' Practices	No seed treatment +local variety (Bansi)	
9	Name of the Technology	Improved variety + seed treatment + drenching	
10	Detail of Technology	Suprbha+ seed treatment with Redomil @ 3ml/lit of water + 2 drenching with Redomil MZ 78 @ 3 ml/lit.	
11	Source of Technology (Year)	JNKVV- 2002	
12	Name of variety used (indicate if hybrid is used)	Variety	Suprbha
		Hybrid	-
13	Characteristics of the variety	Resistant to soft rots	
14	Source of variety (Year of Release)	ICAR,2005	
15	Total area under demonstration (ha)	0.25	
16	Number of demonstration	10	
17	Previous Crop	Wheat	
18	Sowing Time	15/06/08	
19	Harvesting time	10/02/09	
20	Rainfall during crop period(mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	150.00	
23	Minimum Yield Under Demonstration (q/ha)	130.00	
24	Average Yield Under Demonstration (q/ha)	142.50	
25	Maximum Yield Under Local Check (q/ha)	110.00	
26	Minimum Yield Under Local Check (q/ha)	80.00	
27	Average Yield Under Local Check (q/ha)	94.30	
28	Increase in yield over local check	51.11	
29	Performance indicator-1	% disease incidence	
30	Performance Indicator-1 under FLD	15.00	
31	Performance Indicator-1 under Local Check	68.00	
32	Change in performance indicator-1	-77.94	
33	Performance indicator-2	Rhizome weight (g)	
34	Performance Indicator-2 under FLD	62.00	
35	Performance Indicator-2 under Local Check	37.00	
36	Change in performance indicator-2	67.56	
37	Cost of Critical Inputs under FLD (Rs/ha)	1,04,860	
38	Cost of Critical Inputs under Local Check (Rs/ha)	92,510	
39	Cost of Cultivation under FLD* (Rs/ha)	1,21,516	
40	Cost of Cultivation under LC** (Rs/ha)	1,09,166	
41	Gross Return under FLD (Rs/ha)	3,56,250	
42	Gross Return under LC (Rs/ha)	2,35,750	
43	Net Return under FLD (Rs/ha)	2,34,734	
44	Net Return under LC (Rs/ha)	1,26,584	
45	BC ratio Under Demonstration	2.93	
46	BC ratio under Local Check	2.15	
47	Technical Feedback	Farmers feel difficulty in drenching of fungicides	
48	Farmers Reaction	Farmer's agree with performance of the technology	
49	Horizontal spread - No. of villages	3	
50	Horizontal spread - No. of farmers	25	
51	Horizontal spread - Area in ha	5	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
a	Land Preparation	2,800	2,800
b	Seed	80,000	80,000
c	Seed treatment & Inoculation	3,780	-
d	Sowing + Mulching	3520 + 2200	3520 + 2200
e	Fertilizers & Manure	10,060	10,060
f	Weed Control	3,960	3,960
g	Inter culture	1,760	1,760
h	Irrigation	2,856	2,856
i	Insect pest control	-	-
j	Disease control	8,820	250
k	Harvesting	1,760	1,760
l	Threshing	-	-
m	Others	-	-
53	Total	1,21,516	1,09,166
	Any Other Information (Sale rate of fresh Rhizome)	Rs. 2500/qtl.	

FLD-3

1	Title	Integrated management of phytophthora leaf blight in Colocasia	
2	Crop	Colocasia	
3	Season	Kharif-2008-09	
4	Irrigation availability	Rainfed	
5	Soil Type	Sandy loam	
6	Problem Identified	Low yield (50%) due to incidence of phytophthora leaf blight (affected area 400ha)	
7	Thematic Area	IDM	
8	Detail of Farmers' Practices	No seed treatment and spray of fungicide	
9	Name of the Technology	seed treatment+ spray of fungicide	
10	Detail of Technology	seed treatment and 2 spray of Redomil MZ 78 @ 3 ml/lit	
11	Source of Technology (Year)	ICAR,2005	
12	Name of variety used (indicate if hybrid is used)	Variety	Local
		Hybrid	-
13	Characteristics of the variety	-	
14	Source of variety (Year of Release)	-	
15	Total area under demonstration (ha)	2	
16	Number of demonstration	10	
17	Previous Crop	wheat	
18	Sowing Time	17/06/08	
19	Harvesting time	28/12/08	
20	Rainfall during crop period (mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	170.00	
23	Minimum Yield Under Demonstration (q/ha)	140.00	
24	Average Yield Under Demonstration (q/ha)	160.00	
25	Maximum Yield Under Local Check (q/ha)	120.00	
26	Minimum Yield Under Local Check (q/ha)	110.00	
27	Average Yield Under Local Check (q/ha)	115.00	
28	Increase in yield over local check	+38.5%	
29	Performance indicator-1	% disease incidence	
30	Performance Indicator-1 under FLD	17.00	
31	Performance Indicator-1 under Local Check	48.00	
32	Change in performance indicator-1	+64.58%	
33	Performance indicator-2	Weight of Rhizome (gms)	
34	Performance Indicator-2 under FLD	40.00	
35	Performance Indicator-2 under Local Check	27.00	
36	Change in performance indicator-2	+48.14%	
37	Cost of Critical Inputs under FLD (Rs/ha)	34,360	
38	Cost of Critical Inputs under Local Check (Rs/ha)	29,260	
39	Cost of Cultivation under FLD* (Rs/ha)	46,048	
40	Cost of Cultivation under LC** (Rs/ha)	40,948	
41	Gross Return under FLD (Rs/ha)	79,900	
42	Gross Return under LC (Rs/ha)	57,700	
43	Net Return under FLD (Rs/ha)	33,852	
44	Net Return under LC (Rs/ha)	16,752	
45	BC ratio Under Demonstration	1.73	
46	BC ratio under Local Check	1.40	
47	Technical Feedback	Fungicide without leaf in rainy day	
48	Farmers Reaction	Farmers were convinced by management of Phytophthora blight.	
49	Horizontal spread - No. of villages	3	
50	Horizontal spread - No. of farmers	30	
51	Horizontal spread - Area in ha	2	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
a	Land Preparation	2,800	2,800
b	Seed	19,200	19,200
c	Seed treatment & Inoculation	3,000	-
d	Sowing + Mulching	1760 +2200	1760+2200
e	Fertilizers & Manure	10,060	10,060
f	Weed Control	1,760	1,760
g	Inter culture	420	420
h	Irrigation	1,428	1,428
i	Insect pest control	-	-
j	Disease control	2,100	-
k	Harvesting	1,320	1,320
l	Threshing	-	-
m	Others	-	-
53	Total	46,048	40,948
	Any Other Information (Sale rate of fresh Rhizomes)	Rs. 500/qtl.	

FLD-4

1	Title	New Crop Introduction- Kharif onion	
2	Crop	Onion	
3	Season	Kharif-2008-09	
4	Irrigation availability	Rainfed	
5	Soil Type	Sandy loam	
6	Problem Identified	Low benefit (Rs/ha) due to excess production of rabi season onion	
7	Thematic Area	New crop introduction	
8	Detail of Farmers' Practices	Rabi season onion no kharif season	
9	Name of the Technology	Introduction cultivation of onion in kharif	
10	Detail of Technology	Sowing method, variety- AFDR	
11	Source of Technology (Year)	JNKVV-2000	
12	Name of variety used (indicate if hybrid is used)	Variety	Agri-found dark red
		Hybrid	-
13	Characteristics of the variety	Suitable for kharif season	
14	Source of variety (Year of Release)	NEHR Nasik	
15	Total area under demonstration (ha)	2	
16	Number of demonstration	10	
17	Previous Crop	Wheat	
18	Sowing Time	08/07/08	
19	Harvesting time	05/11/08	
20	Rainfall during crop period(mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	90.00	
23	Minimum Yield Under Demonstration (q/ha)	70.00	
24	Average Yield Under Demonstration (q/ha)	84.00	
25	Maximum Yield Under Local Check (q/ha)	30 (Soybean grain equivalent to onion)	
26	Minimum Yield Under Local Check (q/ha)	21.00	
27	Average Yield Under Local Check (q/ha)	25.00	
28	Increase in yield over local check	234%	
29	Performance indicator-1	% increased in yield	
30	Performance Indicator-1 under FLD	84.05	
31	Performance Indicator-1 under Local Check	25.13	
32	Change in performance indicator-1	234%	
33	Performance indicator-2	% increase in net return	
34	Performance Indicator-2 under FLD	1,01,757	
35	Performance Indicator-2 under Local Check	13,707	
36	Change in performance indicator-2	+88050	
37	Cost of Critical Inputs under FLD (Rs/ha)	16,570	
38	Cost of Critical Inputs under Local Check (Rs/ha)	6,240	
39	Cost of Cultivation under FLD* (Rs/ha)	24,318	
40	Cost of Cultivation under LC** (Rs/ha)	23,988	
41	Gross Return under FLD (Rs/ha)	1,26,075	
42	Gross Return under LC (Rs/ha)	37,695	
43	Net Return under FLD (Rs/ha)	1,01,757	
44	Net Return under LC (Rs/ha)	13,707	
45	BC ratio Under Demonstration	5.18	
46	BC ratio under Local Check	1.57	
47	Technical Feedback	Unavailability of kharif season of seeds.	
48	Farmers Reaction	Farmers were convinced with technology of kharif crop due to high ruminative return	
49	Horizontal spread - No. of villages	3	
50	Horizontal spread - No. of farmers	30	
51	Horizontal spread - Area in ha	2	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
a	Land Preparation	2,800	2,800
b	Seed	6,240	6,240
c	Seed treatment & Inoculation	50	-
d	Sowing	880	880
e	Fertilizers & Manure	10,000	10,000
f	Weed Control	880	880
g	Interculture	880	880
h	Irrigation	1,428	1,428
i	Insect pest control	280	-
j	Disease control	-	-
k	Harvesting	880	880
l	Threshing	-	-
m	Others	-	-
	Total	24,318	23,988
	Any Other Information (Sale rate of Onion)	Rs.1500/qtl.	

FLD-5

1	Title	Varietal replacement of Brinjal	
2	Crop	Brinjal	
3	Season	Kharif-2008-09	
4	Irrigation availability	Irrigated	
5	Soil Type	Medium	
6	Problem Identified	Low yield (26%) due to local variety (affected area 65%)	
7	Thematic Area	Crop management practices	
8	Detail of Farmers' Practices	Local variety (Bhatoi)	
9	Name of the Technology	Improved variety-Azad Brinjal-T-1(Long)	
10	Detail of Technology	Improved variety-Azad Brinjal-T-1(Long)	
11	Source of Technology (Year)	CSAUA&T,Kanpur,2007	
12	Name of variety used (indicate if hybrid is used)	Variety	Azad Brinjal-T-1(Long)
		Hybrid	-
13	Characteristics of the variety	High yielding	
14	Source of variety (Year of Release)	CSAUA&T,Kanpur,2007	
15	Total area under demonstration (ha)	2.0	
16	Number of demonstration	10	
17	Previous Crop	Soybean	
18	Sowing Time	20/01/2009	
19	Harvesting time	March,2009	
20	Rainfall during crop period (mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	215.00	
23	Minimum Yield Under Demonstration (q/ha)	209.00	
24	Average Yield Under Demonstration (q/ha)	213.00	
25	Maximum Yield Under Local Check (q/ha)	131.00	
26	Minimum Yield Under Local Check (q/ha)	99.00	
27	Average Yield Under Local Check (q/ha)	116.00	
28	Increase in yield over local check	82.8%	
29	Performance indicator-1	No. of fruits/plant	
30	Performance Indicator-1 under FLD	26.00	
31	Performance Indicator-1 under Local Check	14.00	
32	Change in performance indicator-1	85.71%	
33	Performance indicator-2	Weight of fruit (g)	
34	Performance Indicator-2 under FLD	109.00	
35	Performance Indicator-2 under Local Check	56.00	
36	Change in performance indicator-2	94.64%	
37	Cost of Critical Inputs under FLD (Rs/ha)	12,220	
38	Cost of Critical Inputs under Local Check (Rs/ha)	10,940	
39	Cost of Cultivation under FLD* (Rs/ha)	21,308	
40	Cost of Cultivation under LC** (Rs/ha)	20,028	
41	Gross Return under FLD (Rs/ha)	1,27,560	
42	Gross Return under LC (Rs/ha)	69,780	
43	Net Return under FLD (Rs/ha)	1,06,252	
44	Net Return under LC (Rs/ha)	49,752	
45	BC ratio Under Demonstration	5.98	
46	BC ratio under Local Check	3.48	
47	Technical Feedback	Quality seed is not available.	
48	Farmers Reaction	Farmers were convinced by performance of the variety Azad T-1 (long)	
49	Horizontal spread - No. of villages	3	
50	Horizontal spread - No. of farmers	13	
51	Horizontal spread - Area in ha	2	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
a	Land Preparation	2,800	2,800
b	Seed	300	300
c	Seed treatment & Inoculation	20	-
d	Sowing	440	440
e	Fertilizers & Manure	10,640	10,640
f	Weed Control	616	616
g	Interculture	616	616
h	Irrigation	2,856	2,856
i	Insect pest control	560	-
j	Disease control	700	-
k	Harvesting	1,760	1,760
l	Threshing	-	-
m	Others	-	-
	Total	21,308	20,028
	Any Other Information (Average sale rate of brinjal)	Rs. 600/qtl.	

FLD-6

1	Title	Varietal Replacement in Papaya	
2	Crop	Papaya	
3	Season	Kharif and Rabi 2008-09	
4	Irrigation availability	Irrigated	
5	Soil Type	Sandy loam	
6	Problem Identified	Low yield (34.5 t/ha) due to local long duration variety (affected area 25 ha)	
7	Thematic Area	CMP	
8	Detail of Farmers' Practices	Low yielder and long during tall varieties	
9	Name of the Technology	Varieties replacement	
10	Detail of Technology	Pusa Nanha	
11	Source of Technology (Year)	IARI-2004	
12	Name of variety used (indicate if hybrid is used)	Variety	Pusa Nanha
		Hybrid	-
13	Characteristics of the variety	Dwarf ,mutant short duration high yielding variety	
14	Source of variety (Year of Release)	IARI-2001	
15	Total area under demonstration (ha)	1	
16	Number of demonstration	10	
17	Previous Crop	Wheat	
18	Sowing Time	10/07/08	
19	Harvesting time	Feb-2009	
20	Rainfall during crop period(mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	131.00	
23	Minimum Yield Under Demonstration (q/ha)	122.00	
24	Average Yield Under Demonstration (q/ha)	128.00	
25	Maximum Yield Under Local Check (q/ha)	65.00	
26	Minimum Yield Under Local Check (q/ha)	57.00	
27	Average Yield Under Local Check (q/ha)	61.30	
28	Increase in yield over local check	+108%	
29	Performance indicator-1	Height of plant	
30	Performance Indicator-1 under FLD	5.00 m	
31	Performance Indicator-1 under Local Check	2.50 m	
32	Change in performance indicator-1	+100%	
33	Performance indicator-2	Weight of fruits (gms)	
34	Performance Indicator-2 under FLD	900.00	
35	Performance Indicator-2 under Local Check	500.00	
36	Change in performance indicator-2	+80%	
37	Cost of Critical Inputs under FLD (Rs/ha)	16,620	
38	Cost of Critical Inputs under Local Check (Rs/ha)	16,100	
39	Cost of Cultivation under FLD* (Rs/ha)	28,388	
40	Cost of Cultivation under LC** (Rs/ha)	27,868	
41	Gross Return under FLD (Rs/ha)	1,27,500	
42	Gross Return under LC (Rs/ha)	61,300	
43	Net Return under FLD (Rs/ha)	99,112	
44	Net Return under LC (Rs/ha)	33,432	
45	BC ratio Under Demonstration	4.49	
46	BC ratio under Local Check	1.19	
47	Technical Feedback	True seed of variety is not available and higher yield.	
48	Farmers Reaction	Farmers were convinced dwarfness of variety	
49	Horizontal spread - No. of villages	2	
50	Horizontal spread - No. of farmers	12	
51	Horizontal spread - Area in ha	4	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
a	Land Preparation	2,800	2,800
b	Seed	5,500	5,000
c	Seed treatment & Inoculation	20	
d	Sowing	1,760	1,760
e	Fertilizers & Manure	10,260	10,260
f	Weed Control	440	440
g	Inter culture	880	880
h	Irrigation	5,712	5,712
i	Insect pest control		
j	Disease control	840	840
k	Harvesting	176	176
l	Threshing		
m	Others		
	Total	28,388	27,868
	Any Other Information (Average sale rate of fruits of Papaya)	Rs. 1000/ha	

FLD-7

1	Title	Integrated of Zn with RDF in Wheat	
2	Crop	Wheat	
3	Season	Rabi 2008-09	
4	Irrigation availability	Irrigated	
5	Soil Type	Medium black	
6	Problem Identified	Low yield (12%) due to no application of zinc (affected area 75%)	
7	Thematic Area	Integrated Nutrition Management	
8	Detail of Farmers' Practices	No use of Zinc	
9	Name of the Technology	Zn application @ 5kg/ha with RDF(120:60:30 N P K kg/ha)	
10	Detail of Technology	Zn application @ 5kg/ha with RDF(120:60:30 N P K kg/ha)	
11	Source of Technology (Year)	JNKVV-2000	
12	Name of variety used (indicate if hybrid is used)	Variety	-
		Hybrid	-
13	Characteristics of the variety		
14	Source of variety (Year of Release)		
15	Total area under demonstration (ha)	5	
16	Number of demonstration	11	
17	Previous Crop	Soybean	
18	Sowing Time	15/11/08	
19	Harvesting time	26/03/09	
20	Rainfall during crop period (mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	60.12	
23	Minimum Yield Under Demonstration (q/ha)	49.25	
24	Average Yield Under Demonstration (q/ha)	58.78	
25	Maximum Yield Under Local Check (q/ha)	51.27	
26	Minimum Yield Under Local Check (q/ha)	44.12	
27	Average Yield Under Local Check (q/ha)	50.35	
28	Increase in yield over local check	16.74%	
29	Performance indicator-1	No. of grain/year	
30	Performance Indicator-1 under FLD	40.25	
31	Performance Indicator-1 under Local Check	35.50	
32	Change in performance indicator-1	13.38%	
33	Performance indicator-2	Test weight (g)	
34	Performance Indicator-2 under FLD	38.60	
35	Performance Indicator-2 under Local Check	33.70	
36	Change in performance indicator-2	14.54%	
37	Cost of Critical Inputs under FLD (Rs/ha)	6,840	
38	Cost of Critical Inputs under Local Check (Rs/ha)	6,625	
39	Cost of Cultivation under FLD* (Rs/ha)	17,341	
40	Cost of Cultivation under LC** (Rs/ha)	17,121	
41	Gross Return under FLD (Rs/ha)	Grain 66421 + straw 3527 = 69,948	
42	Gross Return under LC (Rs/ha)	Grain 56895 + straw 3000 = 59,895	
43	Net Return under FLD (Rs/ha)	52,607	
44	Net Return under LC (Rs/ha)	42,775	
45	BC ratio Under Demonstration	4.03	
46	BC ratio under Local Check	3.49	
47	Technical Feedback	Zinc containing fertilizers not available in market	
48	Farmers Reaction	Farmers were convinced by application of Zinc in wheat	
49	Horizontal spread - No. of villages	3	
50	Horizontal spread - No. of farmers	20	
51	Horizontal spread - Area in ha	10	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
a	Land Preparation	2100	2100
b	Seed	1600	1600
c	Seed treatment & Inoculation	525	525
d	Sowing	1000	1000
e	Fertilizers & Manure	4720	4500
f	Weed Control	1000	1000
g	Interculture	440	440
h	Irrigation	2856	2856
i	Insect pest control		
j	Disease control		
k	Harvesting	1760	1760
l	Threshing	1340	1340
m	Others		
	Total	17341	17121
	Any Other Information (Average sale rate of wheat)	Grain Rs.1130/qtl. and straw Rs.40/qtl.	

FLD-8

1	Title		Varietal replacement in Wheat
2	Crop		Wheat
3	Season		Rabi 2008-09
4	Irrigation availability		Irrigated
5	Soil Type		Medium black
6	Problem Identified		Low yield (22%) due to old variety (Lok-1, HD-1553)(affected area 35%)
7	Thematic Area		Crop management practices
8	Detail of Farmers' Practices		Growing local variety (Lok-1, HD-1553)
9	Name of the Technology		High yielding variety (GW-273)
10	Detail of Technology		GW-273
11	Source of Technology (Year)		GAU-2000
12	Name of variety used (indicate if hybrid is used)	Variety Hybrid	GW-273 -
13	Characteristics of the variety		High yielding
14	Source of variety (Year of Release)		GAU-2000
15	Total area under demonstration (ha)		5
16	Number of demonstration		13
17	Previous Crop		Soybean
18	Sowing Time		15/11/08
19	Harvesting time		28/03/2009
20	Rainfall during crop period (mm)		1198.00
21	Number of rainy days		35
22	Maximum Yield Under Demonstration (q/ha)		64.00
23	Minimum Yield Under Demonstration (q/ha)		45.00
24	Average Yield Under Demonstration (q/ha)		56.00
25	Maximum Yield Under Local Check (q/ha)		45.00
26	Minimum Yield Under Local Check (q/ha)		36.00
27	Average Yield Under Local Check (q/ha)		41.00
28	Increase in yield over local check		58.53%
29	Performance indicator-1		No. of grains/year
30	Performance Indicator-1 under FLD		60.00
31	Performance Indicator-1 under Local Check		41.00
32	Change in performance indicator-1		46.34%
33	Performance indicator-2		Test weight (g)
34	Performance Indicator-2 under FLD		40.20
35	Performance Indicator-2 under Local Check		31.10
36	Change in performance indicator-2		29.26%
37	Cost of Critical Inputs under FLD (Rs/ha)		6,625
38	Cost of Critical Inputs under Local Check (Rs/ha)		6,100
39	Cost of Cultivation under FLD* (Rs/ha)		17,321
40	Cost of Cultivation under LC** (Rs/ha)		16,921
41	Gross Return under FLD (Rs/ha)		Grain 63280 + straw 3360 = 66,640
42	Gross Return under LC (Rs/ha)		Grain 46330 + straw 2460 = 48,790
43	Net Return under FLD (Rs/ha)		49,319
44	Net Return under LC (Rs/ha)		31,869
45	BC ratio Under Demonstration		3.84
46	BC ratio under Local Check		2.88
47	Technical Feedback		Required more irrigation and not fit for late condition
48	Farmers Reaction		Farmers were convinced by the performance of the yield variety GW-273
49	Horizontal spread - No. of villages		10
50	Horizontal spread - No. of farmers		500
51	Horizontal spread - Area in ha		120
52	Detail of the Cost of Cultivation		*FLD **Local Check
a	Land Preparation		2100 2100
b	Seed		1800 1400
c	Seed treatment & Inoculation		525 525
d	Sowing		1000 1000
e	Fertilizers & Manure		4500 4500
f	Weed Control		1000 1000
g	Interculture		440 440
h	Irrigation		2856 2856
i	Insect pest control		
j	Disease control		
k	Harvesting		1760 1760
l	Threshing		1340 1340
m	Others		
53	Total		17321 16921
	Any Other Information (Average sale rate wheat)		Grain Rs. 1130/qtl. and straw Rs.40/qtl.

FLD-9

1	Title		Varietal replacement in Chilli
2	Crop		Chilli
3	Season		Rabi 2008-09
4	Irrigation availability		Irrigated
5	Soil Type		Sandy loam
6	Problem Identified		Low yield (50 q/ha) of chilli due to local old variety (affected area 300 ha)
7	Thematic Area		CMP
8	Detail of Farmers' Practices		Local old variety (Pusa)
9	Name of the Technology		Varieties replacement (Hybrid)
10	Detail of Technology		Disha
11	Source of Technology (Year)		Bejo sheetal – 2005
12	Name of variety used (indicate if hybrid is used)	Variety	-
		Hybrid	High yielding Hybrid
13	Characteristics of the variety		-
14	Source of variety (Year of Release)		Bejo Sheetal-2005
15	Total area under demonstration (ha)		2.0
16	Number of demonstration		10
17	Previous Crop		Wheat
18	Sowing Time		10-07-08 (Transplanting)
19	Harvesting time		12-12-08 (Six pickings)
20	Rainfall during crop period (mm)		1198.00
21	Number of rainy days		35
22	Maximum Yield Under Demonstration (q/ha)		150.00
23	Minimum Yield Under Demonstration (q/ha)		90.00
24	Average Yield Under Demonstration (q/ha)		125.00
25	Maximum Yield Under Local Check (q/ha)		80.00
26	Minimum Yield Under Local Check (q/ha)		60.00
27	Average Yield Under Local Check (q/ha)		65.00
28	Increase in yield over local check		+92.30%
29	Performance indicator-1		No. of pickings
30	Performance Indicator-1 under FLD		06.00
31	Performance Indicator-1 under Local Check		04.00
32	Change in performance indicator-1		+50%
33	Performance indicator-2		No. of pods
34	Performance Indicator-2 under FLD		55.00
35	Performance Indicator-2 under Local Check		30.00
36	Change in performance indicator-2		+84%
37	Cost of Critical Inputs under FLD (Rs/ha)		17,960
38	Cost of Critical Inputs under Local Check (Rs/ha)		15,880
39	Cost of Cultivation under FLD* (Rs/ha)		32,140
40	Cost of Cultivation under LC** (Rs/ha)		30,060
41	Gross Return under FLD (Rs/ha)		1,50,000
42	Gross Return under LC (Rs/ha)		56,000
43	Net Return under FLD (Rs/ha)		1,17,860
44	Net Return under LC (Rs/ha)		34,940
45	BC ratio Under Demonstration		4.66
46	BC ratio under Local Check		2.16
47	Technical Feedback		More incidence of leaf curl viral.
48	Farmers Reaction		Farmers were convinced with the high yield performance of Hybrid
49	Horizontal spread - No. of villages		4
50	Horizontal spread - No. of farmers		15
51	Horizontal spread - Area in ha		5
52	Detail of the Cost of Cultivation		*FLD **Local Check
a	Land Preparation		2,800 2,800
b	Seed		5,600 5,600
c	Seed treatment & Inoculation		20 -
d	Sowing		900 900
e	Fertilizers & Manure		10,280 10,280
f	Weed Control		880 880
g	Interculture		880 880
h	Irrigation		4,760 4,760
i	Insect pest control		560 -
j	Disease control		1,500 -
k	Harvesting		3,960 3,960
l	Threshing		- -
m	Others		- -
53	Total		32,140 30,060
	Any Other Information (Average sale rate of green chilli)		Rs. 1000/qtl.

FLD-10

1	Title	Integrated Nutrient Management in Potato	
2	Crop	Potato	
3	Season	Rabi 2008-09	
4	Irrigation availability	Irrigated	
5	Soil Type	Medium	
6	Problem Identified	Low yield (36%) due to use of imbalance fertilizers (80:57:0 N P K kg/ha) (affected area 60%)	
7	Thematic Area	INM	
8	Detail of Farmers' Practices	80:57:0 N P K kg/ha	
9	Name of the Technology	120:100:100 N P K kg/ha + Azoto + PSB @ 2.5 kg/ha each	
10	Detail of Technology	120:100:100 N P K kg/ha + Azoto + PSB @ 2.5 kg/ha each	
11	Source of Technology (Year)	JNKVV-2000	
12	Name of variety used (indicate if hybrid is used)	Variety	-
		Hybrid	-
13	Characteristics of the variety	-	
14	Source of variety (Year of Release)	-	
15	Total area under demonstration (ha)	2.00	
16	Number of demonstration	10	
17	Previous Crop	Blackgram	
18	Sowing Time	22/10/08	
19	Harvesting time	10/01/09	
20	Rainfall during crop period (mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	210.00	
23	Minimum Yield Under Demonstration (q/ha)	175.00	
24	Average Yield Under Demonstration (q/ha)	192.00	
25	Maximum Yield Under Local Check (q/ha)	125.00	
26	Minimum Yield Under Local Check (q/ha)	118.00	
27	Average Yield Under Local Check (q/ha)	120.00	
28	Increase in yield over local check	60%	
29	Performance indicator-1	No. of Tubers/plant	
30	Performance Indicator-1 under FLD	12.50	
31	Performance Indicator-1 under Local Check	9.50	
32	Change in performance indicator-1	32.63%	
33	Performance indicator-2	Weight of Tubers/plants (g)	
34	Performance Indicator-2 under FLD	400.00	
35	Performance Indicator-2 under Local Check	295.00	
36	Change in performance indicator-2	35.59%	
37	Cost of Critical Inputs under FLD (Rs/ha)	26,380	
38	Cost of Critical Inputs under Local Check (Rs/ha)	18,900	
39	Cost of Cultivation under FLD* (Rs/ha)	38,788	
40	Cost of Cultivation under LC** (Rs/ha)	31,308	
41	Gross Return under FLD (Rs/ha)	1,15,200	
42	Gross Return under LC (Rs/ha)	72,000	
43	Net Return under FLD (Rs/ha)	76,412	
44	Net Return under LC (Rs/ha)	40,692	
45	BC ratio Under Demonstration	2.96	
46	BC ratio under Local Check	2.29	
47	Technical Feedback	SSP not drilled by seed fertilizer drill	
48	Farmers Reaction	Farmers were convinced due to increased in yield 60% by technology	
49	Horizontal spread - No. of villages	4	
50	Horizontal spread - No. of farmers	20	
51	Horizontal spread - Area in ha	40	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
a	Land Preparation	4,200	4,200
b	Seed	8,000	8,000
c	Seed treatment & Inoculation	1,860	1,860
d	Sowing	1,760	1,760
e	Fertilizers & Manure	15,480	8,000
f	Weed Control	880	880
g	Interculture	880	880
h	Irrigation	3,808	3,808
i	Insect pest control	-	-
j	Disease control	1,040	1,040
k	Harvesting	880	880
l	Threshing	-	-
m	Others	-	-
53	Total	38,788	31,308
	Any Other Information (Average sale rate of potato)	Rs.600/ql.	

FLD-11

1	Title		Varietal replacement in Tomato
2	Crop		Tomato
3	Season		Rabi-2008-09
4	Irrigation availability		Irrigated
5	Soil Type		Medium
6	Problem Identified		Low yield (35%) due to local variety (affected area 60%)
7	Thematic Area		Crop management practices
8	Detail of Farmers' Practices		Cultivation of local variety
9	Name of the Technology		Improved variety-Kashi Amarit
10	Detail of Technology		Kashi Amarit, High yielding variety
11	Source of Technology (Year)		IVRI-2005
12	Name of variety used (indicate if hybrid is used)	Variety	Kashi Amarit
		Hybrid	
13	Characteristics of the variety		High yielding
14	Source of variety (Year of Release)		IVRI,2005
15	Total area under demonstration (ha)		2.0 ha
16	Number of demonstration		15
17	Previous Crop		Soybean
18	Sowing Time		12-01-2009
19	Harvesting time		March 2009
20	Rainfall during crop period (mm)		1198.00
21	Number of rainy days		35
22	Maximum Yield Under Demonstration (q/ha)		255.00
23	Minimum Yield Under Demonstration (q/ha)		200.00
24	Average Yield Under Demonstration (q/ha)		245.00
25	Maximum Yield Under Local Check (q/ha)		135.00
26	Minimum Yield Under Local Check (q/ha)		125.00
27	Average Yield Under Local Check (q/ha)		130.00
28	Increase in yield over local check		87.5 %
29	Performance indicator-1		No. of fruits/plant
30	Performance Indicator-1 under FLD		70.00
31	Performance Indicator-1 under Local Check		43.00
32	Change in performance indicator-1		62.79%
33	Performance indicator-2		No. of pickings
34	Performance Indicator-2 under FLD		06.00
35	Performance Indicator-2 under Local Check		04.00
36	Change in performance indicator-2		50%
37	Cost of Critical Inputs under FLD (Rs/ha)		12920
38	Cost of Critical Inputs under Local Check (Rs/ha)		11620
39	Cost of Cultivation under FLD* (Rs/ha)		22960
40	Cost of Cultivation under LC** (Rs/ha)		21660
41	Gross Return under FLD (Rs/ha)		122230
42	Gross Return under LC (Rs/ha)		65200
43	Net Return under FLD (Rs/ha)		99270
44	Net Return under LC (Rs/ha)		43540
45	BC ratio Under Demonstration		5.32
46	BC ratio under Local Check		3.01
47	Technical Feedback		Seed not available in market.
48	Farmers Reaction		Farmers were convinced by the performance of the variety
49	Horizontal spread - No. of villages		8
50	Horizontal spread - No. of farmers		25
51	Horizontal spread - Area in ha		2
52	Detail of the Cost of Cultivation		
a	Land Preparation	*FLD	**Local Check
b	Seed	2800	2800
c	Seed treatment & Inoculation	300	300
d	Sowing	20	
e	Fertilizers & Manure	440	440
f	Weed Control	11320	11320
g	Interculture	616	616
h	Irrigation	616	616
i	Insect pest control	3808	3808
j	Disease control	560	
k	Harvesting	720	
l	Threshing	1760	1760
m	Others		
53	Total	22960	21660
	Any Other Information (Average sale rate of tomato)	Rs. 500/qtl.	

FLD-12

1	Title	Efficiency of hand wheel hoe in wheat	
2	Crop	Wheat	
3	Season	Rabi 2008-09	
4	Irrigation availability	Irrigated	
5	Soil Type	Medium	
6	Problem Identified	Low efficiency and high time consuming during weeding of wheat (affected area 70%)	
7	Thematic Area	Farm machinery	
8	Detail of Farmers' Practices	One hand weeding(uprooting the weeds)	
9	Name of the Technology	Wheat hand hoe	
10	Detail of Technology	One weeding at 25 – 30 DAS by wheat hand hoe	
11	Source of Technology (Year)	CIAE, Bhopal-1998	
12	Name of variety used (indicate if hybrid is used)	Variety	-
		Hybrid	-
13	Characteristics of the variety	-	
14	Source of variety (Year of Release)	-	
15	Total area under demonstration (ha)	6	
16	Number of demonstration	15	
17	Previous Crop	Soybean	
18	Sowing Time	14/11/08	
19	Harvesting time	04/04/09	
20	Rainfall during crop period (mm)	1198.00	
21	Number of rainy days	35	
22	Maximum Yield Under Demonstration (q/ha)	60.00	
23	Minimum Yield Under Demonstration (q/ha)	51.00	
24	Average Yield Under Demonstration (q/ha)	54.53	
25	Maximum Yield Under Local Check (q/ha)	44.00	
26	Minimum Yield Under Local Check (q/ha)	38.00	
27	Average Yield Under Local Check (q/ha)	40.20	
28	Increase in yield over local check	35.44%	
29	Performance indicator-1	No. of labours required/ha	
30	Performance Indicator-1 under FLD	12.00	
31	Performance Indicator-1 under Local Check	19.00	
32	Change in performance indicator-1	36.84% less labour	
33	Performance indicator-2	Weed biomass at harvest (g/m ²)	
34	Performance Indicator-2 under FLD	34.50	
35	Performance Indicator-2 under Local Check	112.60	
36	Change in performance indicator-2	69.27% weed control efficiency	
37	Cost of Critical Inputs under FLD (Rs/ha)	6,625	
38	Cost of Critical Inputs under Local Check (Rs/ha)	6,100	
39	Cost of Cultivation under FLD* (Rs/ha)	16,321	
40	Cost of Cultivation under LC** (Rs/ha)	16,881	
41	Gross Return under FLD (Rs/ha)	Grain 61619 + straw 3279 = 64,890	
42	Gross Return under LC (Rs/ha)	Grain 45426 + straw 2412 = 47,838	
43	Net Return under FLD (Rs/ha)	47569	
44	Net Return under LC (Rs/ha)	30957	
45	BC ratio Under Demonstration	3.74	
46	BC ratio under Local Check	2.83	
47	Technical Feedback	Non availability of wheat hand hoe easily.	
48	Farmers Reaction	Farmer's convinced the technology	
49	Horizontal spread - No. of villages	2	
50	Horizontal spread - No. of farmers	30	
51	Horizontal spread - Area in ha	20	
52	Detail of the Cost of Cultivation	*FLD	**Local Check
a	Land Preparation	2100	2100
b	Seed	1800	1800
c	Seed treatment & Inoculation	525	525
d	Sowing	1000	1000
e	Fertilizers & Manure	4500	4500
f	Weed Control	-	1000
g	Interculture	440	-
h	Irrigation	2856	2850
i	Insect pest control	-	-
j	Disease control	-	-
k	Harvesting	1700	1700
l	Threshing	1340	1340
m	Others	-	-
	Total	17321	16881
	Any Other Information (Average sale rate of wheat)	Grain Rs. 1130/qlt. and straw Rs.40/qlt.	

3.2.(C). Details of FLD on Enterprises

i). Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Reported in FLD Other than Oil seeds and pulses								

ii). Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
				Nil				

iii). Other Enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / Indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom				Nil				
Apiary				Nil				
Sericulture				Nil				
Vermi compost				Nil				

3.3. Achievements on Training

(Including the sponsored and FLD training programmes):

A). ON CAMPUS

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
A	Farmers & Farm Women									
I	Crop Production									
1	Weed Management	1	1	18	1	19	2		2	21
2	Resource Conservation Technologies	1	1	14	1	15	5	1	6	21
3	Cropping Systems	-	-	-	-	-	-	-	-	-
4	Crop Diversification	-	-	-	-	-	-	-	-	-
5	Integrated Farming	-	-	-	-	-	-	-	-	-
6	Water management	-	-	-	-	-	-	-	-	-
7	Seed production	-	-	-	-	-	-	-	-	-
8	Nursery management	-	-	-	-	-	-	-	-	-
9	Integrated Crop Management	2	2	37	5	42	-	-	-	42
10	Fodder production	-	-	-	-	-	-	-	-	-
11	Production of organic inputs	-	-	-	-	-	-	-	-	-
II	Horticulture									
a	Vegetable Crops									
1	Production of low value and high value crops	4	4	89	3	92	15	-	15	107
2	Off-season vegetables	-	-	-	-	-	-	-	-	-
3	Nursery raising	1	1	24	-	24	-	-	-	24
4	Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-
5	Export potential vegetables	-	-	-	-	-	-	-	-	-
6	Grading and standardization	-	-	-	-	-	-	-	-	-
7	Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
b	Fruits									
1	Training and Pruning	-	-	-	-	-	-	-	-	-
2	Layout and Management of Orchards	-	-	-	-	-	-	-	-	-
3	Cultivation of Fruit	-	-	-	-	-	-	-	-	-
4	Management of young plants/orchards	2	2	39	7	46	-	-	-	46
5	Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-
6	Export potential fruits	-	-	-	-	-	-	-	-	-
7	Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-
8	Plant propagation techniques	-	-	-	-	-	-	-	-	-
c	Ornamental Plants									
1	Nursery Management	-	-	-	-	-	-	-	-	-
2	Management of potted plants	-	-	-	-	-	-	-	-	-
3	Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
4	Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-
d	Plantation crops									
1	Production and Management technology	-	-	-	-	-	-	-	-	-
2	Processing and value addition	-	-	-	-	-	-	-	-	-
e	Tuber crops									
1	Production and Management technology	-	-	-	-	-	-	-	-	-
2	Processing and value addition	-	-	-	-	-	-	-	-	-

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
f	Spices									
1	Production and Management technology	1	1	30		30	2	-	2	32
2	Processing and value addition	-	-	-	-	-	-	-	-	-
g	Medicinal and Aromatic Plants									
1	Nursery management	-	-	-	-	-	-	-	-	-
2	Production and management technology	1	1	22		22	-	-	-	22
3	Post harvest technology and value addition	-	-	-	-	-	-	-	-	-
III	Soil Health and Fertility Management									
1	Soil fertility management	1	1	20	-	20	-	-	-	20
2	Soil and Water Conservation	2	2	42	1	43	5	1	6	49
3	Integrated Nutrient Management	1	1	22	3	25	-	-	-	25
4	Production and use of organic inputs	1	1	28	-	28	-	-	-	28
5	Management of Problematic soils	-	-	-	-	-	-	-	-	-
6	Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
7	Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
8	Soil and Water Testing	-	-	-	-	-	-	-	-	-
IV	Livestock Production and Management									
1	Dairy Management	1	1	14	8	22	-	-	-	22
2	Poultry Management	-	-	-	-	-	-	-	-	-
3	Piggery Management	-	-	-	-	-	-	-	-	-
4	Goat rearing	-	-	-	-	-	-	-	-	-
5	Disease Management	1	1	22	-	22	-	-	-	22
6	Feed management	2	2	38	-	38	1	-	1	39
7	Production of quality animal products	-	-	-	-	-	-	-	-	-
V	Home Science/Women empowerment									
1	Household food security by kitchen gardening and nutrition gardening	2	2	-	30	30	-	10	10	40
2	Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
3	Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
4	Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
5	Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
6	Storage loss minimization techniques	1	1	-	23	23	-	2	2	25
7	Value addition	3	3	-	44	44	-	16	16	60
8	Income generation activities for empowerment of rural Women	1	5	-	11	11	-	15	15	26
9	Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
10	Rural Crafts	-	-	-	-	-	-	-	-	-
11	Women and child care	-	-	-	-	-	-	-	-	-
VI	Agri. Engineering									
1	Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-
2	Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-
3	Production of small tools and implements	-	-	-	-	-	-	-	-	-
4	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-
5	Small scale processing and value addition	-	-	-	-	-	-	-	-	-
6	Post Harvest Technology	-	-	-	-	-	-	-	-	-

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
VII Plant Protection										
1	Integrated Pest Management	3	3	57	13	70	3	-	3	73
2	Integrated Disease Management	2	2	38	4	42	7	-	7	49
3	Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-
4	Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-
VIII Fisheries										
1	Integrated fish farming	-	-	-	-	-	-	-	-	-
2	Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-
3	Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-
4	Composite fish culture	-	-	-	-	-	-	-	-	-
5	Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-
6	Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-
7	Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-
8	Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-
9	Shrimp farming	-	-	-	-	-	-	-	-	-
10	Edible oyster farming	-	-	-	-	-	-	-	-	-
11	Pearl culture	-	-	-	-	-	-	-	-	-
12	Fish processing and value addition	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site										
1	Seed Production	-	-	-	-	-	-	-	-	-
2	Planting material production	-	-	-	-	-	-	-	-	-
3	Bio-agents production	-	-	-	-	-	-	-	-	-
4	Bio-pesticides production	-	-	-	-	-	-	-	-	-
5	Bio-fertilizer production	-	-	-	-	-	-	-	-	-
6	Vermi-compost production	-	-	-	-	-	-	-	-	-
7	Organic manures production	-	-	-	-	-	-	-	-	-
8	Production of fry and fingerlings	-	-	-	-	-	-	-	-	-
9	Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-
10	Small tools and implements	-	-	-	-	-	-	-	-	-
11	Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-
12	Production of Fish feed	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics										
1	Leadership development	-	-	-	-	-	-	-	-	-
2	Group dynamics	-	-	-	-	-	-	-	-	-
3	Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
4	Mobilization of social capital	-	-	-	-	-	-	-	-	-
5	Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
6	WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI Agro-forestry										
1	Production technologies	-	-	-	-	-	-	-	-	-
2	Nursery management	-	-	-	-	-	-	-	-	-
3	Integrated Farming Systems	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)										
		-	-	-	-	-	-	-	-	-
TOTAL		35	39	680	182	862	66	45	111	973

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
B	RURAL YOUTH									
1	Mushroom Production	1	1	-	-	-	26	-	26	26
2	Bee-keeping	1	1	-	17	17	-	1	1	18
3	Integrated farming	-	-	-	-	-	-	-	-	-
4	Seed production	1	1	22	-	22	-	-	-	22
5	Production of organic inputs	-	-	-	-	-	-	-	-	-
6	Integrated Farming	-	-	-	-	-	-	-	-	-
7	Planting material production	-	-	-	-	-	-	-	-	-
8	Vermi-culture	-	-	-	-	-	-	-	-	-
9	Sericulture	-	-	-	-	-	-	-	-	-
10	Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-
11	Commercial fruit production	-	-	-	-	-	-	-	-	-
12	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-
13	Nursery Management of Horticulture crops									
14	Training and pruning of orchards	-	-	-	-	-	-	-	-	-
15	Value addition	1	1		15	15				15
16	Production of quality animal products									
17	Dairying	-	-	-	-	-	-	-	-	-
18	Sheep and goat rearing									
19	Quail farming	-	-	-	-	-	-	-	-	-
20	Piggery	-	-	-	-	-	-	-	-	-
21	Rabbit farming	-	-	-	-	-	-	-	-	-
22	Poultry production	1	1	26	6	32	-	-	-	32
23	Ornamental fisheries									
24	Para vets	-	-	-	-	-	-	-	-	-
25	Para extension workers	-	-	-	-	-	-	-	-	-
26	Composite fish culture	-	-	-	-	-	-	-	-	-
27	Freshwater prawn culture	-	-	-	-	-	-	-	-	-
28	Shrimp farming	-	-	-	-	-	-	-	-	-
29	Pearl culture	-	-	-	-	-	-	-	-	-
30	Cold water fisheries	-	-	-	-	-	-	-	-	-
31	Fish harvest and processing technology	-	-	-	-	-	-	-	-	-
32	Fry and fingerling rearing	-	-	-	-	-	-	-	-	-
33	Small scale processing	-	-	-	-	-	-	-	-	-
34	Post Harvest Technology	-	-	-	-	-	-	-	-	-
35	Tailoring and Stitching	-	-	-	-	-	-	-	-	-
36	Rural Crafts	-	-	-	-	-	-	-	-	-
	TOTAL	5	5	48	38	86	26	1	27	113

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
C	Extension Personnel									
1	Productivity enhancement in field crops	3	7	67		67	14	-	14	81
2	Integrated Pest Management	-	-	-	-	-	-	-	-	-
3	Integrated Nutrient management	1	1	54	-	54	8	-	8	62
4	Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-
5	Protected cultivation technology	-	-	-	-	-	-	-	-	-
6	Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
7	Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-
8	Information networking among farmers	-	-	-	-	-	-	-	-	-
9	Capacity building for ICT application	-	-	-	-	-	-	-	-	-
10	Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-
11	WTO and IPR issues	-	-	-	-	-	-	-	-	-
12	Management in farm animals	-	-	-	-	-	-	-	-	-
13	Livestock feed and fodder production	-	-	-	-	-	-	-	-	-
14	Household food security	1	2	-	25	25	-	1	1	26
15	Women and Child care	-	-	-	-	-	-	-	-	-
16	Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-
17	Production and use of organic inputs	-	-	-	-	-	-	-	-	-
18	Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
19	Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-
	TOTAL	5	10	121	25	146	22	1	23	169

3.3. (B). OFF CAMPUS

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
A	Farmers & Farm Women									
I	Crop Production									
1	Weed Management	-	-	-	-	-	-	-	-	-
2	Resource Conservation Technologies	3	3	59	4	63	5	-	5	68
3	Cropping Systems	-	-	-	-	-	-	-	-	-
4	Crop Diversification	-	-	-	-	-	-	-	-	-
5	Integrated Farming	1	1	20	-	20	2	-	2	22
6	Water management	-	-	-	-	-	-	-	-	-
7	Seed production	1	1	10	5	15	2	3	5	20
8	Nursery management	-	-	-	-	-	-	-	-	-
9	Integrated Crop Management	3	3	61	7	68	7	-	7	75
10	Fodder production	-	-	-	-	-	-	-	-	-
11	Production of organic inputs	-	-	-	-	-	-	-	-	-
II	Horticulture									
a	Vegetable Crops									
1	Production of low volume and high value crops	3	3	77	2	79	10	3	13	92
2	Off-season vegetables	-	-	-	-	-	-	-	-	-
3	Nursery raising	1	1	16	-	16	5	1	6	22
4	Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-
5	Export potential vegetables	-	-	-	-	-	-	-	-	-
6	Grading and standardization	1	1	17	-	17	1	-	1	18
7	Protective cultivation(Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
b	Fruits									
1	Training and Pruning	-	-	-	-	-	-	-	-	-
2	Layout and Management of Orchards	2	2	53	-	53	5	-	5	58
3	Cultivation of Fruit	2	2	33	7	40	-	-	-	40
4	Management of young plants/orchards	2	2	91	10	101	5	-	5	106
5	Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-
6	Export potential fruits	-	-	-	-	-	-	-	-	-
7	Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-
8	Plant propagation techniques	-	-	-	-	-	-	-	-	-
c	Ornamental Plants									
1	Nursery Management	-	-	-	-	-	-	-	-	-
2	Management of potted plants	-	-	-	-	-	-	-	-	-
3	Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
4	Propagation techniques of Ornamental Plants	1	1	20	4	24	1	-	1	25
d	Plantation crops									
1	Production and Management technology	-	-	-	-	-	-	-	-	-
2	Processing and value addition	1	1	16	5	21	2	-	2	23
e	Tuber crops									
1	Production and Management technology	1	1	23	-	23	-	-	-	23
2	Processing and value addition	-	-	-	-	-	-	-	-	-
f	Spices									
1	Production and Management technology	1	1	27	1	28	-	-	-	28
2	Processing and value addition	-	-	-	-	-	-	-	-	-

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
g	<i>Medicinal and Aromatic Plants</i>									
1	Nursery management	-	-	-	-	-	-	-	-	-
2	Production and management technology	1	1	30	-	30	2	-	2	32
3	Post harvest technology and value addition	1	1	10	-	10	8	-	8	18
III	Soil Health and Fertility Management									
1	Soil fertility management	1	1	24	-	24	-	-	-	24
2	Soil and Water Conservation	2	2	69	9	78	2	2	4	82
3	Integrated Nutrient Management	2	2	50	3	53	1	-	1	54
4	Production and use of organic inputs	2	2	37	6	43	-	-	-	43
5	Management of Problematic soils	-	-	-	-	-	-	-	-	-
6	Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
7	Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
8	Soil and Water Testing	-	-	-	-	-	-	-	-	-
IV	Livestock Production and Management									
1	Dairy Management	1	1	17	4	21	-	-	-	21
2	Poultry Management	-	-	-	-	-	-	-	-	-
3	Piggery Management	-	-	-	-	-	-	-	-	-
4	Goat Management	-	-	-	-	-	-	-	-	-
5	Disease Management	2	2	56	2	58	5	-	5	63
6	Feed management	3	3	45	2	47	-	-	-	47
7	Production of quality animal products	1	1	24	3	27	-	-	-	27
V	Home Science/Women empowerment									
1	Household food security by kitchen gardening and nutrition gardening	1	1	-	16	16	-	1	1	17
2	Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
3	Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
4	Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
5	Gender mainstreaming through SHGs	1	1	-	10	10	-	3	3	13
6	Storage loss minimization techniques	-	-	-	-	-	-	-	-	-
7	Value addition	5	5	-	69	69	-	13	13	82
8	Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-
9	Location specific drudgery reduction technologies	1	1	-	26	26	-	-	-	26
10	Rural Crafts	-	-	-	-	-	-	-	-	-
11	Women and child care	-	-	-	-	-	-	-	-	-
VI	Agril. Engineering									
1	Installation and maintenance of micro irrigation systems	1	1	9	4	13	5	2	7	20
2	Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-
3	Production of small tools and implements	-	-	-	-	-	-	-	-	-
4	Repair and maintenance of farm machinery and implements	1	1	13	5	18	-	-	-	18
5	Small scale processing and value addition	-	-	-	-	-	-	-	-	-
6	Post Harvest Technology	-	-	-	-	-	-	-	-	-
VII	Plant Protection									
1	Integrated Pest Management	3	3	38	1	39	35	7	43	82
2	Integrated Disease Management	3	3	65	3	68	8	-	8	76
3	Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-
4	Production of biocontrol agents and biopesticides	-	-	-	-	-	-	-	-	-

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
VIII	Fisheries									
1	Integrated fish farming	-	-	-	-	-	-	-	-	-
2	Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-
3	Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-
4	Composite fish culture	-	-	-	-	-	-	-	-	-
5	Hatchery management and culture of freshwater prawn.	-	-	-	-	-	-	-	-	-
6	Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-
7	Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-
8	Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-
9	Shrimp farming	-	-	-	-	-	-	-	-	-
10	Edible oyster farming	-	-	-	-	-	-	-	-	-
11	Pearl culture	-	-	-	-	-	-	-	-	-
12	Fish processing and value addition	-	-	-	-	-	-	-	-	-
IX	Production of Inputs at site									
1	Seed Production	-	-	-	-	-	-	-	-	-
2	Planting material production	-	-	-	-	-	-	-	-	-
3	Bio-agents production	-	-	-	-	-	-	-	-	-
4	Bio-pesticides production	-	-	-	-	-	-	-	-	-
5	Bio-fertilizer production	-	-	-	-	-	-	-	-	-
6	Vermi-compost production	-	-	-	-	-	-	-	-	-
7	Organic manures production	-	-	-	-	-	-	-	-	-
8	Production of fry and fingerlings	-	-	-	-	-	-	-	-	-
9	Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-
10	Small tools and implements	-	-	-	-	-	-	-	-	-
11	Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-
12	Production of Fish feed	-	-	-	-	-	-	-	-	-
X	Capacity Building and Group Dynamics									
1	Leadership development	-	-	-	-	-	-	-	-	-
2	Group dynamics	-	-	-	-	-	-	-	-	-
3	Formation and Management of SHGs	1	1	10	-	10	8	-	8	18
4	Mobilization of social capital	-	-	-	-	-	-	-	-	-
5	Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
6	WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI	Agro-forestry									
1	Production technologies	-	-	-	-	-	-	-	-	-
2	Nursery management	-	-	-	-	-	-	-	-	-
3	Integrated Farming Systems	-	-	-	-	-	-	-	-	-
XII	Others (Pl. Specify)									
	TOTAL	55	55	838	175	1013	83	40	123	1136

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
(B)	RURAL YOUTH									
1	Mushroom Production	1	1	21	4	25	-	-	-	25
2	Bee-keeping	-	-	-	-	-	-	-	-	-
3	Integrated farming	-	-	-	-	-	-	-	-	-
4	Seed production	-	-	-	-	-	-	-	-	-
5	Production of organic inputs	-	-	-	-	-	-	-	-	-
6	Integrated Farming	-	-	-	-	-	-	-	-	-
7	Planting material production	-	-	-	-	-	-	-	-	-
8	Vermi-culture	1	1	-	20	20	-	-	-	20
9	Sericulture	-	-	-	-	-	-	-	-	-
10	Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-
11	Commercial fruit production	-	-	-	-	-	-	-	-	-
12	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-
13	Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-
14	Training and pruning of orchards	-	-	-	-	-	-	-	-	-
15	Value addition	-	-	-	-	-	-	-	-	-
16	Production of quality animal products	-	-	-	-	-	-	-	-	-
17	Dairying	-	-	-	-	-	-	-	-	-
18	Sheep and goat rearing	-	-	-	-	-	-	-	-	-
19	Quail farming	-	-	-	-	-	-	-	-	-
20	Piggery	-	-	-	-	-	-	-	-	-
21	Rabbit farming	-	-	-	-	-	-	-	-	-
22	Poultry production	1	1	11	-	11	6	-	6	17
23	Ornamental fisheries	-	-	-	-	-	-	-	-	-
24	Para vets	-	-	-	-	-	-	-	-	-
25	Para extension workers	-	-	-	-	-	-	-	-	-
26	Composite fish culture	-	-	-	-	-	-	-	-	-
27	Freshwater prawn culture	-	-	-	-	-	-	-	-	-
28	Shrimp farming	-	-	-	-	-	-	-	-	-
29	Pearl culture	-	-	-	-	-	-	-	-	-
30	Cold water fisheries	-	-	-	-	-	-	-	-	-
31	Fish harvest and processing technology	-	-	-	-	-	-	-	-	-
32	Fry and fingerling rearing	-	-	-	-	-	-	-	-	-
33	Small scale processing	-	-	-	-	-	-	-	-	-
34	Post Harvest Technology	-	-	-	-	-	-	-	-	-
35	Tailoring and Stitching	-	-	-	-	-	-	-	-	-
36	Rural Crafts	-	-	-	-	-	-	-	-	-
	TOTAL	3	3	32	24	56	6	-	6	62

S.N.	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
(C)	Extension Personnel									
1	Productivity enhancement in field crops	3	3	76	-	76	9	-	9	85
2	Integrated Pest Management	1	1	25		25	3	-	3	28
3	Integrated Nutrient management	1	1	24	-	24	3	-	3	27-
4	Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-
5	Protected cultivation technology	-	-	-	-	-	-	-	-	-
6	Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
7	Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-
8	Information networking among farmers	-	-	-	-	-	-	-	-	-
9	Capacity building for ICT application	-	-	-	-	-	-	-	-	-
10	Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-
11	WTO and IPR issues	-	-	-	-	-	-	-	-	-
12	Management in farm animals	-	-	-	-	-	-	-	-	-
13	Livestock feed and fodder production	1	1	14	-	14	2	-	2	16
14	Household food security	-	-	-	-	-	-	-	-	-
15	Women and Child care	-	-	-	-	-	-	-	-	-
16	Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-
17	Production and use of organic inputs	-	-	-	-	-	-	-	-	-
18	Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
19	Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-
	TOTAL	6	6	139	-	139	17	-	17	156

3.3. (C). CONSOLIDATED TABLE (On and Off Campus)

	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
A	Farmers & Farm Women									
I	Crop Production									
1	Weed Management	1	1	18	1	19	2	-	2	21
2	Resource Conservation Technologies	4	4	73	5	78	10	1	11	68
3	Cropping Systems	-	-	-	-	-	-	-	-	-
4	Crop Diversification	-	-	-	-	-	-	-	-	-
5	Integrated Farming	1	1	20	-	20	2	-	2	22
6	Water management	-	-	-	-	-	-	-	-	-
7	Seed production	2	2	32	5	37	2	3	5	42
8	Nursery management	-	-	-	-	-	-	-	-	-
9	Integrated Crop Management	5	5	98	12	110	7	-	7	117
10	Fodder production	-	-	-	-	-	-	-	-	-
11	Production of organic inputs	-	-	-	-	-	-	-	-	-
II	Horticulture									
a	Vegetable Crops									
1	Production of low volume and high value crops	7	7	166	5	171	25	3	28	199
2	Off-season vegetables	-	-	-	-	-	-	-	-	-
3	Nursery raising	2	2	40	-	40	5	1	6	46
4	Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-
5	Export potential vegetables	-	-	-	-	-	-	-	-	-
6	Grading and standardization	1	1	17	-	17	1	-	1	18
7	Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
b	Fruits									
1	Training and Pruning	-	-	-	-	-	-	-	-	-
2	Layout and Management of Orchards	2	2	53	-	53	5	-	5	58
3	Cultivation of Fruit	2	2	33	7	40	-	-	-	40
4	Management of young plants/orchards	4	4	130	17	147	5	-	5	152
5	Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-
6	Export potential fruits	-	-	-	-	-	-	-	-	-
7	Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-
8	Plant propagation techniques	-	-	-	-	-	-	-	-	-
c	Ornamental Plants									
1	Nursery Management	-	-	-	-	-	-	-	-	-
2	Management of potted plants	-	-	-	-	-	-	-	-	-
3	Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
4	Propagation techniques of Ornamental Plants	1	1	20	4	24	1	-	1	25
d	Plantation crops									
1	Production and Management technology	-	-	-	-	-	-	-	-	-
2	Processing and value addition	1	1	16	5	21	2	-	2	23
e	Tuber crops									
1	Production and Management technology	1	1	23	-	23	-	-	-	23
2	Processing and value addition	-	-	-	-	-	-	-	-	-
f	Spices									
1	Production and Management technology	2	2	57	1	58	2	-	2	60
2	Processing and value addition	-	-	-	-	-	-	-	-	-

	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
g	Medicinal and Aromatic Plants									
1	Nursery management	-	-	-	-	-	-	-	-	-
2	Production and management technology	2	2	52	-	52	2	-	2	54
3	Post harvest technology and value addition	1	1	10	-	10	8	-	8	18
III	Soil Health and Fertility Management									
1	Soil fertility management	2	2	44	-	44	-	-	-	44
2	Soil and Water Conservation	6	6	111	10	121	7	3	10	131
3	Integrated Nutrient Management	3	3	72	6	78	1	-	1	79
4	Production and use of organic inputs	2	2	65	6	71	-	-	-	71
5	Management of Problematic soils	-	-	-	-	-	-	-	-	-
6	Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
7	Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
8	Soil and Water Testing	-	-	-	-	-	-	-	-	-
IV	Livestock Production and Management									
1	Dairy Management	2	2	31	12	43	-	-	-	43
2	Poultry Management	2	2	37	6	43	6	-	6	49
3	Piggery Management	-	-	-	-	-	-	-	-	-
4	Goat Management	-	-	-	-	-	-	-	-	-
5	Disease Management	3	3	78	2	80	5	-	5	85
6	Feed management	3	3	83	2	85	-	-	1	86
7	Production of quality animal products	1	1	24	3	27	-	-	-	27
V	Home Science/Women empowerment									
1	Household food security by kitchen gardening and nutrition gardening	3	3	-	46	46	-	11	11	57
2	Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
3	Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
4	Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
5	Gender mainstreaming through SHGs	1	1	-	10	10	-	3	3	13
6	Storage loss minimization techniques	1	1	-	23	23	-	2	2	25
7	Value addition	5	5	-	113	113	-	29	29	142
8	Income generation activities for empowerment of rural Women	3	7	-	48	48	-	16	16	64
9	Location specific drudgery reduction technologies	1	1	-	26	26	-	-	-	26
10	Rural Crafts	-	-	-	-	-	-	-	-	-
11	Women and child care	-	-	-	-	-	-	-	-	-
VI	Agril. Engineering									
1	Installation and maintenance of micro irrigation systems	1	1	9	4	13	5	2	7	20
2	Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-
3	Production of small tools and implements	-	-	-	-	-	-	-	-	-
4	Repair and maintenance of farm machinery and implements	1	1	13	5	18	-	-	-	18
5	Small scale processing and value addition	-	-	-	-	-	-	-	-	-
6	Post Harvest Technology	-	-	-	-	-	-	-	-	-

	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
VII	Plant Protection									
1	Integrated Pest Management	6	6	95	14	109	38	7	46	155
2	Integrated Disease Management	5	5	103	7	110	15	-	15	125
3	Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-
4	Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-
VIII	Fisheries									
1	Integrated fish farming	-	-	-	-	-	-	-	-	-
2	Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-
3	Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-
4	Composite fish culture	-	-	-	-	-	-	-	-	-
5	Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-
6	Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-
7	Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-
8	Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-
9	Shrimp farming	-	-	-	-	-	-	-	-	-
10	Edible oyster farming	-	-	-	-	-	-	-	-	-
11	Pearl culture	-	-	-	-	-	-	-	-	-
12	Fish processing and value addition	-	-	-	-	-	-	-	-	-
IX	Production of Inputs at site									
1	Seed Production	-	-	-	-	-	-	-	-	-
2	Planting material production	-	-	-	-	-	-	-	-	-
3	Bio-agents production	-	-	-	-	-	-	-	-	-
4	Bio-pesticides production	-	-	-	-	-	-	-	-	-
5	Bio-fertilizer production	-	-	-	-	-	-	-	-	-
6	Vermi-compost production	-	-	-	-	-	-	-	-	-
7	Organic manures production	-	-	-	-	-	-	-	-	-
8	Production of fry and fingerlings	-	-	-	-	-	-	-	-	-
9	Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-
10	Small tools and implements	-	-	-	-	-	-	-	-	-
11	Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-
12	Production of Fish feed	-	-	-	-	-	-	-	-	-
X	Capacity Building and Group Dynamics									
1	Leadership development	-	-	-	-	-	-	-	-	-
2	Group dynamics	-	-	-	-	-	-	-	-	-
3	Formation and Management of SHGs	1	1	10	-	10	8	-	8	18
4	Mobilization of social capital	-	-	-	-	-	-	-	-	-
5	Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
6	WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI	Agro-forestry									
1	Production technologies	-	-	-	-	-	-	-	-	-
2	Nursery management	-	-	-	-	-	-	-	-	-
3	Integrated Farming Systems	-	-	-	-	-	-	-	-	-
XII	Others (Pl. Specify)									
	TOTAL	90	94	1518	357	1875	149	85	234	2109

	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
B	RURAL YOUTH									
1	Mushroom Production	2	2	21	4	25	26	-	26	51
2	Bee-keeping	1	1	-	17	17	-	1	1	18
3	Integrated farming	-	-	-	-	-	-	-	-	-
4	Seed production	1	1	22	-	22	-	-	-	22
5	Production of organic inputs	-	-	-	-	-	-	-	-	-
6	Integrated Farming	-	-	-	-	-	-	-	-	-
7	Planting material production	-	-	-	-	-	-	-	-	-
8	Vermi-culture	1	1	-	20	20	-	-	-	20
9	Sericulture	-	-	-	-	-	-	-	-	-
10	Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-
11	Commercial fruit production	-	-	-	-	-	-	-	-	-
12	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-
13	Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-
14	Training and pruning of orchards	-	-	-	-	-	-	-	-	-
15	Value addition	1	1	-	15	15	-	-	-	15
16	Production of quality animal products	-	-	-	-	-	-	-	-	-
17	Dairying	-	-	-	-	-	-	-	-	-
18	Sheep and goat rearing	-	-	-	-	-	-	-	-	-
19	Quail farming	-	-	-	-	-	-	-	-	-
20	Piggery	-	-	-	-	-	-	-	-	-
21	Rabbit farming	-	-	-	-	-	-	-	-	-
22	Poultry production	2	2	37	6	43	6	-	6	49
23	Ornamental fisheries	-	-	-	-	-	-	-	-	-
24	Para vets	-	-	-	-	-	-	-	-	-
25	Para extension workers	-	-	-	-	-	-	-	-	-
26	Composite fish culture	-	-	-	-	-	-	-	-	-
27	Freshwater prawn culture	-	-	-	-	-	-	-	-	-
28	Shrimp farming	-	-	-	-	-	-	-	-	-
29	Pearl culture	-	-	-	-	-	-	-	-	-
30	Cold water fisheries	-	-	-	-	-	-	-	-	-
31	Fry and fingerling rearing	-	-	-	-	-	-	-	-	-
32	Small scale processing	-	-	-	-	-	-	-	-	-
33	Post Harvest Technology	-	-	-	-	-	-	-	-	-
34	Tailoring and Stitching	-	-	-	-	-	-	-	-	-
35	Rural Crafts	-	-	-	-	-	-	-	-	-
	TOTAL	8	8	80	62	142	32	1	33	175

	Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
				Others			SC/ST			
				Male	Female	Total	Male	Female	Total	
C	Extension Personnel									
1	Productivity enhancement in field crops	6	10	143	-	143	23	-	23	166
2	Integrated Pest Management	1	1	25	-	25	3	-	3	28
3	Integrated Nutrient management	2	2	78	-	78	11	-	11	89
4	Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-
5	Protected cultivation technology	-	-	-	-	-	-	-	-	-
6	Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
7	Information networking among farmers	-	-	-	-	-	-	-	-	-
8	Capacity building for ICT application	-	-	-	-	-	-	-	-	-
9	WTO and IPR issues	-	-	-	-	-	-	-	-	-
10	Management in farm animals	-	-	-	-	-	-	-	-	-
11	Livestock feed and fodder production	1	1	14	-	14	2	-	2	16
12	Household food security	1	2	-	25	25	-	1	1	26
13	Women and Child care	-	-	-	-	-	-	-	-	-
14	Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-
15	Production and use of organic inputs	-	-	-	-	-	-	-	-	-
16	Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
17	Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-
	TOTAL	11	16	260	25	285	39	1	40	325

DETAILS INFORMATION OF TRAINING PROGRAMMES CONDUCTED DURING THE YEAR

S No	Date	Clientele	Title of training programme	Duration (days)	Venue (Off/ On Campus)	Number of participants (OTHERS)			Number of participants (SC / ST)			Grand Total
						Male	Female	Total	Male	Female	Total	
CROP PRODUCTION												
1	01.06.08	F/FW	Soybean production technology	1	Off Campus	10	5	15	2	3	5	20
2	02.06.08	F/FW	Cultivation of Sorghum	1	On campus	19	2	21	-	-	-	21
3	03.06.08	F/FW	Cultivation of Black-Gram	1	On campus	18	3	21	-	-	-	21
4	04.06.08	F/FW	Cultivation of Sesame	1	Off Campus	17	4	21	-	-	-	21
5	10.06.08	F/FW	SRI Method of transplanting of Rice	1	On campus	14	1	15	5	1	6	21
6	14.06.08	F/FW	Weed Control in Kharif Crops	1	On campus	18	1	19	2	-	2	21
7	25.06.08	F/FW	Ridge and Furrow Method In Soybean	1	Off Campus	26	-	26	-	-	-	26
8	16.06.08	F/FW	Blue Green algae Application In Rice	1	Off Campus	17	2	19	-	-	-	19
9	02.08.08	F/FW	Role Of Integrated Farming	1	Off Campus	20	-	20	2	-	2	22
10	28.09.08	F/FW	Production Technology Of Mustard	1	Off Campus	26	3	29	-	-	-	29
11	14.11.08	F/FW	Water management in Wheat crop	1	Off Campus	16	02	18	5	-	5	23
12	07.01.08	F/FW	Prevention of Pulses crops from Frost	1	Off Campus	18	-	18	7	-	7-	25
	Total			12		219	23	242	23	4	27	269
HORTICULTURE												
1	25.04.08	F/FW	Summer Vegetable technology	1	On campus	24	-	24	-	-	-	24
2	28.04.08	F/FW	Water Management In Fruits	1	On campus	19	6	25	-	-	-	25
3	02.05.08	F/FW	Pit digging And Layout of Fruits Plants	1	Off Campus	25	-	25	-	-	-	25
4	05.05.08	F/FW	Nursery Management of Kharif vegetable	1	Off Campus	24	-	24	-	-	-	24
5	13.05.08	F/FW	Cultivation of Chili	1	On campus	30	-	30	2	-	2	32
6	21.05.08	F/FW	Zinger Cultivation	1	On campus	30	-	30	2	-	2	32
7	22.05.08	F/FW	Colocassia Cultivation	1	Off Campus	15	-	15	15	-	15	30
8	23.05.08	F/FW	Cultivation of Papaya	1	Off Campus	18	2	20	-	-	-	20
9	26.06.08	F/FW	Cultivation of Kharif Onion	1	Off Campus	27	1	28	-	-	-	28
10	28.06.08	F/FW	Cultivation of Tomato	1	On campus	25	-	25	-	-	-	25
11	03.07.08	F/FW	Fertilizer Management In Fruits	1	On campus	20	1	21	-	-	-	21
12	14.07.08	F/FW	Production Technology Of Aloe vera	1	Off Campus	22	-	22	-	-	-	22
13	28.07.08	F/FW	Plantation of Horticulture crops	1	Off Campus	23	-	23	-	-	-	23

S No	Date	Clientele	Title of training programme	Duration (days)	Venue (Off/ On Campus)	Number of participants (OTHERS)			Number of participants (SC / ST)			Grand Total
						Male	Female	Total	Male	Female	Total	
14	29.07.08	F/FW	Weed control in Kharif vegetables	1	Off Campus	25	2	27	-	-	-	27
15	01.08.08	F/FW	Fertilizer management in Kharif Vegetables	1	On campus	25	3	28	-	-	-	28
16	05.08.08	F/FW	Management of newly Established Orchard	1	Off Campus	21	4	25	-	-	-	25
17	06.08.08	F/FW	Making of Caronda Candy	1	Off campus	16	5	21	2	-	2	23
18	09.09.08	F/FW	Cultivation of Marigold	1	Off campus	20	4	24	1	-	1	25
19	08.10.08	F/FW	Production technology of Cauliflower	1	Off campus	17	-	17	6	-	6	23
20	05.11.08	F/FW	Nursery management of Brinjal, Tomato & chilli.	1	Off campus	16	-	16	5	1	6	22
21	05.12.08	F/FW	Production technology of guava	1	Off campus	15	5	20	1	-	1	21
22	09.12.08	F/FW	Production technology of Late Potato	1	Off campus	23	-	23	-	-	-	23
23	26.12.08	F/FW	Management of Orchard in Winter	1	Off campus	19	6	25	-	-	-	25
24	02.02.09	F/FW	Scientific cultivation of Chili	1	Off campus	26	-	26	-	-	-	26
25	04.02.09	F/FW	Production technology of Tomato	1	Off campus	9	-	9	4	3	7	16
26	11.02.09	F/FW	Layout management of Orchard .	1	Off campus	28	-	28	5	-	5	33
27	12.02.09	F/FW	Importance of grading in vegetable	1	Off campus	17	-	17	1	-	1	18
	Total			27		579	39	618	44	4	48	666
SOIL SCIENCE												
1	03.04.08	F/FW	Soil Sample Collections methods	1	On campus	24	-	24	-	-	-	24
2	05.04.08	F/FW	Soil Sample Collections methods	1	Off campus	20	-	20	-	-	-	20
3	14.04.08	F/FW	Technique of soil Conservation	1	On campus	22	-	22	-	-	-	22
4	19.04.08	F/FW	Summer ploughing	1	Off campus	20	1	21	5	1	6	27
5	06.05.08	F/FW	Scientific methods of FYM	1	On campus	28	-	28	-	-	-	28
6	16.06.08	F/FW	Blue green algae production	1	Off campus	20	6	26	-	-	-	26
7	10.09.08	F/FW	INM in Rabi crops	1	On campus	22	3	25	-	-	-	25
8	10.05.08	F/FW	Scientific method of FYM preparation	1	Off campus	20	3	23	2	2	4	27
9	03.11.08	F/FW	Production technology of green manure	1	Off campus	16	-	16	-	-	-	16
10	10.11.08	F/FW	Vermi- compost production technology	1	Off campus	15	3	18	-	-	-	18
11	06.02.09	F/FW	Production & use of organic inputs	1	Off campus	32	-	32	1	-	1	33
12	23.03.09	F/FW	INM in rabi crops	1	Off campus	18	3	21	-	-	-	21
13	25.03.09	F/FW	INM in Kharif crops	1	Off campus	17	-	17	-	-	-	17
	TOTAL			13		274	19	283	8	3	11	294

S No	Date	Clientele	Title of training programme	Duration (days)	Venue (Off/ On Campus)	Number of participants (OTHERS)			Number of participants (SC / ST)			Grand Total
						Male	Female	Total	Male	Female	Total	
LIVE STOCK PRODUCTION												
1	30.04.08	F/FW	Feeding management of Livestock	1	On campus	15	-	15	-	-	-	15
2	01.05.08	F/FW	Disease Management in livestock	1	On campus	22	-	22	-	-	-	22
3	18.06.08	F/FW	Livestock management	1	On campus	14	8	22	-	-	-	22
4	02.07.08	F/FW	Fodder Production technology	1	Off campus	23	-	23	1	-	-	24
5	07.08.08	F/FW	Clean milk Production	1	Off campus	24	3	27	-	-	-	27
6	12.09.08	F/FW	Feed Management of Cross-Bred. Cows	1	Off campus	23	-	23	-	-	-	23
7	06.12.08	F/FW	Prevention of Animal from disease	1	Off Campus	19	2	21	-	-	-	21
8	11.12.08	F/FW	Care of milch Animals In winter	1	Off Campus	17	4	21	2	5	7	28
9	27.01.09	F/FW	Disease Management in Goat	1	Off Campus	37	-	37	5	-	5	42
10	05.02.09	F/FW	Importance of Green Fodder to Animal	1	Off Campus	22	2	24	-	-	-	24
	TOTAL			10		216	19	235	8	5	13	248
HOME SCIENCE / WOMEN IN AGRICULTURE												
1	02.04.08	WA	Safe storage of Grain	1	On campus		23	23		2	2	25
2	08.04.08	WA	Preparation of mango Pickle	1	On-campus	-	14	14		13	13	27
3	30.07.08	WA	Value addition in Karonda and Lemon	1	On campus		21	21	-	-	-	21
4	23.09.08	WA	Diet Management In Children	1	On campus	-	25	25	-	-	-	25
5	06.10.08	WA	Women empowerment through SHGs	1	Off campus	-	10	10	-	03	03	13
6	27.10.08	WA	Mal nutrient ion in Farm Women	1	On campus		05	05	-	10	10	15
7	29.10.08	WA	Value Addition in Soybean	1	On campus		9	9	-	3	3	12
8	15.12.08	WA	Value addition in Aonla	1	On campus	-	15	15	-	-	-	15
9	08.01.09	WA	Drudgery in Women through Wheel hoe	1	Off campus	-	26	26	-	-	-	26
10	15.01.09	WA	Value Addition in Tomato	1	Off campus	-	30	30	-	02	02	32
11	03.02.09	WA	Dal making of Gram	1	Off campus	-	22	22	-	10	10	32
12	3-7.03.09	WA	Pickle Technology of Ginger	5	On campus	-	11	11	-	15	15	26
13	31-03-09	WA	Safe Storage of Grain, Wheat and Pulses	1	Off campus	-	16	16	-	01	01	17
	TOTAL			17			227	227		59	59	286
AGRICULTURAL ENGINEERING												
1	03.10.08	F/FW	Water Conservation Technology	1	Off campus	09	04	13	05	02	07	20
2	22.03.09	F/FW	Soil & Water conservation techniques	1	off campus	13	5	18	-	-	-	18
	TOTAL			2		22	9	31	5	2	7	38

S No	Date	Clientele	Title of training programme	Duration (days)	Venue (Off/ On Campus)	Number of participants (OTHERS)			Number of participants (SC / ST)			Grand Total
						Male	Female	Total	Male	Female	Total	
PLANT PROTECTION												
1	23.04.08	F/FW	Disease management In summer Vegetables.	1	On campus	18	1	19	7	-	7	26
2	04.08.08	F/FW	Integrated Pest management in Kharif crops	1	On campus	16	6	22	1	-	1	23
3	06.08.08	F/FW	Disease management in Paddy	1	On campus	20	3	23	-	-	-	23
4	08.08.08	F/FW	IPM in Tomato and Brinjal	1	On campus	19	5	24	-	-	-	24
5	21.10.08	F/FW	Disease Management in Ginger	1	Off campus	18	-	18	-	-	-	18
6	12.11.08	F/FW	IPM in Gram	1	Off campus	22	2	24	02	-	02	26
7	08.12.08	F/FW	IPM in Tomato	1	Off campus	13	01	14	06	01	07	21
8	05.01.09	F/FW	Termite Control in Wheat	1	Off campus	16	-	16	02	-	02	18
9	12.01.09	F/FW	Pest control in Rabi Vegetables	1	Off campus	-	-	-	06	07	13	13
10	16.01.09	F/FW	Plant protection in Papaya	1	Off campus	21	-3	24	02	-	02	26
11	21.03.09	F/FW	IPM in Rabi Crops	1	Off campus	09	-	09	21	-	21	30
12	30.03.09	F/FW	IDM and IPM in Cucurbits	1	Off campus	26	-	26	06	-	06	32
	TOTAL			12		198	21	219	53	8	61	280
Capacity building and group dynamics												
9	26.03.09	F/FW	Formation and management of SHGs	1	Off campus	10	-	10	08	-	08	18
	TOTAL			1		10	-	10	08	-	08	18
90	Grand Total			94		1518	357	1875	149	85	234	2109

3.3.(D) . Vocational training programmes for Rural Youth

SN	Crop / Enterprise	Identified Thrust Area	Training title	Duration (days)	No. of Participants			Self employed after training			Number of persons employed elsewhere
					Male	Female	Total	Type of units	Number of units	Number of persons employed	
1	Poultry	Poultry rearing	Poultry production	2	43	6	49	Small	3	7	-
2	Bee keeping	Honey production	Bee keeping	1	-	18	18	Cottage	2	4	-
3	Seed production	Seed availability	Commercial seed production of Soybean and Wheat	1	22	-	22	Cottage-	6	12	-
4	Food processing	Value addition	Food processing in Ginger	1	-	15	15	Cottage	4	6	-
5	Vermi culture	Income generation	Vermi compost production	1	-	20	20	Cottage	2	4	-
6	Marigold	Income generation	Marigold Cultivation	1	21	4	25	Cottage	3	7	-
7	Mushroom Production	Mushroom Production	Mushroom Production Technology	1	26	-	26	Cottage	4-	6	-
			TOTAL	8	112	63	175	-	20	40	-

3.3.(E). Sponsored Training Programmes

S. No	Title	Thematic area	Month	Duration (days)	Client PF/R/EF	No. of courses	No. of Participants						Sponsoring Agency	
							Male		Female		Total			
							Others	SC/ST	Others	SC/ST	Others	SC/ST		Total
1	Sowing Management, Fertilizer, Weed Management In Soybean	Seed production	01-July-08	1	F	01	72	8	-	-	72	8	80	
2	Rouging intercultural and Pest management Soybean	Seed production	08-Sept-08	1	F	01	65	5	-	-	65	5	70	
3	Harvesting, Threshing and storage of Soybean	Seed production	22-23 oct.08	2	F	01	92	7	-	-	92	7	99	
4	Sowing, Fertilizer, Weed Management In Wheat	Seed production	24-25 Nov.08	2	F	01	123	11	4	-	127	11	138	
5	Rouging intercultural and Pest management in Wheat	Seed production	28-29.Jan.09	2	F	01	128	9	22	-	150	9	159	
6	Harvesting, Threshing and storage of Wheat	Seed production	28-29 March.09	2	F	01	139	8	5	-	144	8	152	
Total				10		6	619	48	31	-	650	48	698	

3.3.(F). EXTENSION PERSONNEL

S No	Date	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST			Grand Total
						Male	Female	Total	Male	Female	Total	
1	16.06,08	Extension officers	SRI-Method of transplanting in Rice	1	On Campus	27	-	27	3	-	3	30
2	17,06.08	Extension officers	Ridge and Furrow method of Soybean	1	On Campus	20	-	20	5	-	5	25
3	07.07.08	Extension officers	Integrated Weed management in Kharif crops	1	On Campus	29	-	29	1	-	1	30
4	08.07.08	Extension officers	Integrated nutrient management in Rabi crops	1	On Campus	54	-	54	8	-	8	62
5	09.09.08	Extension officers	Integrated disease management in vegetables	1	On Campus	25	-	25	3	-	3	28
6	13.09.08	Extension officers	Integrated nutrient management in Rabi crops	1	On Campus	24	-	24	3	-	3	27
7	18.09.08	Extension officers	Production technology of Rabi Pulse crops	1	On Campus	20	-	20	4	-	4	24
8	25 .9, 08	Extension officers	Production technology of mustard	1	On Campus	21	-	21	6	-	6	27
9	7-8.11.08	Anganwadi Worker	Malnutrition in rural Women.	2	On Campus		25	25	-	1	1	26
10	16-20.3.09	Extension officers	Production technology of Kharif crops	5	On Campus	26	-	26	4	-	4	30
11	30.03.09	Extension officers	Production technology of Fodder & Concentrates	1	On Campus	14	-	14	2	-	2	16
	TOTAL			16		260	25	285	39	1	40	325

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	9	699	27	726	6	-	6	707	27	732
Kisan Mela	1	10000	480	10480	40	-	40	10040	480	10520
Kisan Ghosthi	3	122	-	122	24	-	24	400	3	146
Exhibition	-	-	-	-	-	-	-	-	-	-
Film Show	1	16	-	16	-	-	-	16	-	16
Method Demonstrations	2	36	8	44	-	-	-	36	8	44
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	3	39	14	53	-	-	-	39	14	53
Lectures delivered as resource persons	29	Mass	-	-	-	-	-	-	-	-
Newspaper coverage	21	Mass	-	-	-	-	-	-	-	-
Radio talks	05	Mass	-	-	-	-	-	-	-	-
TV talks	09	Mass	-	-	-	-	-	-	-	-
Popular articles	04	Mass	-	-	-	-	-	-	-	-
Extension Literature	12	Mass	-	-	-	-	-	-	-	-
Advisory Services	18	92	-	92-	-	-	-	92	-	92
Scientific visit to farmers field	14	104	-	104-	-	-	-	104	-	104
Farmers visit to KVK	18	1625	75	648	-	-	-	573	75	1750
Diagnostic visits	05	52	-	52	-	-	-	52	-	52
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	1	100	10	110	8	2	10	108	12	120
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	01	78	6	84	4	-	4	82	6	88
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (Environment)	01	102	-	102	-	-	-	102	-	102
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Total	157	13104	620	3244	42	2	78	3146	180	13845

NEWS PAPER COVERAGE

The collage features several newspaper pages with the following headlines and content:

- कृषक महिला प्रशिक्षण सम्पन्न** (Crop Women Training Completed): A report on a training session for women farmers.
- योजनाओं का पूरा लाभ ले किसान : एडीएम** (Farmers get full benefit of schemes: EDM): A statement from the Deputy District Magistrate regarding government schemes.
- ससों से चमकी किसानों की किस्मत** (Farmers' fate shines with crops): A story about crop production and market prices.
- पौध-बीज किसानों को बनाएंगे लक्ष्यपति** (Plants and seeds will make farmers target-rich): A report on agricultural inputs and their impact on farmers.
- टीकमगढ़ में फूलों और खजुराही में मशरूम की खेती होगी** (Flower and mushroom cultivation in Tikamgarh): A news item about new agricultural initiatives in the district.
- मधुमक्खी पालन भी किसानों को लाभ का जरिया** (Beekeeping is also a means of benefit for farmers): A report on apiculture as a farming activity.
- जैविक खाद का इस्तेमाल करें** (Use organic fertilizer): A promotional message for organic fertilizers.
- किसानी से बड़ा कोई उद्योग नहीं** (No industry is bigger than farming): A statement emphasizing the importance of agriculture.
- इटालियन मधुमक्खी देती ज्यादा शहद** (Italian bee gives more honey): A report on the benefits of Italian beekeeping.

3.5 Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Wheat	C-306	12.3	30750	Seed will be sale in Sep., 09
OILSEEDS	Soybean	JS-93-05	38.9	194900	Seed will be sale in June, 09
PULSES	Gram	JG-315	114.45	583695	Seed will be sale in Sep., 09
	Pea	Arkel	47.52	285120	Seed will be sale in Sep., 09

Summary

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	12.3	30750	Breeder seed provided to different seed production agency
2	OILSEEDS	38.9	194900	
3	PULSES	161.97	868815	
4	VEGETABLES	-	-	
5	FLOWER CROPS	-	-	
6	OTHERS	-	-	
TOTAL		213.17	1094465	

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Papaya	Pusa Nanha	2000		35
SPICES	Chilli	Pusa Jawala	3000		22
VEGETABLES	Brinjal	Azad - T1	3000		16
	Tomato	Kashi Amrit	3000		18
FOREST SPECIES	-	-	-		-
ORNAMENTAL CROPS	-		Nil		-
PLANTATION CROPS	-		Nil		-
TOTAL			11000		93

Summary

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS (Papaya)	2000		35
2	VEGETABLES (Brinjal and Tomato)	6000		43
3	SPICES (Chilli)	3000		22
4	FOREST SPECIES	Nil		-
5	ORNAMENTAL CROPS	Nil		-
6	PLANTATION CROPS	Nil		-
7	OTHERS	Nil		-
	TOTAL	11000		93

BIO PRODUCT

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS		Nil				
BIOFERTILIZERS		Nil				
BIO PESTICIDES		Nil				

Summary

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
1	BIOAGENTS	Nil				
2	BIO FERTILIZERS	Nil				
3	BIO PESTICIDE	Nil				
	TOTAL					

LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle			Nil			
Sheep and Goat			Nil			
Poultry			Nil			
Fisheries			Nil			
Others (Specify)			Nil			

Summary

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	Cattle		Nil			
2	Sheep & goat		Nil			
3	Poultry		Nil			
4	Fisheries		Nil			
5	Others		Nil			
	Total		Nil			

3.6. Literature Developed/Published (with full title, author & reference)

(A). KVK News Letter (Date of start, Periodicity, number of copies distributed etc.):

S.N.	Item	Title	Authors name	Number
1	News letters (4) (Dispatched to Every Gram panchayat of the District.)	Kishan Patra (Farmers News Letter) : 1(1) April-June.2008	Tomar,R.K.S., Singh,R.K., Sahu,B.L. (2008)	1000
2		Kishan Patra (Farmers News Letter) : 1(2) July-Sept.2008	Tomar,R.K.S.,Singh,R.K.,Sahu,B.L., Prajapati, R.K .and Padwar,P.P : (2008)	1000
3		Kishan Patra (Farmers News Letter): 1(3) Oct-Dec..2008	Tomar,R.K.S.,Singh,R.K.,Sahu,B.L., Prajapati R.K. and Padwar,P.P: (2009)	1000
4		Kishan Patra (Farmers News Letter): 1(4) Jan-March.2009	Tomar,R.K.S.,Singh,R.K.,Sahu,B.L., Prajapati R.K. and Padwar,P.P: (2009)	1000

3.6.(B). Literature developed/published

S.N	Item	Title	Authors name	Number
Research papers				
1	(2)	Productivity improvement of Soybean (<i>Glycine max L.</i>)Through integrated crop management in front line demonstration. <i>Journal of Oilseeds Research</i> 26 (Special issue): 568-570.	Tomar, R.K.S., Sahu, B.L.and Kumar, Rupendra (2009)	-
2		Scenario of export-import in oilseed sector during pre-and post liberalization period calls for policy option. <i>Journal of Oilseeds Research</i> 26 (Special issue): 579-583.	Rathi Deepak and Tomar,R.K.S. (2009)	-
Paper presented in Seminar				
3	(4)	Analysis of major breeding constraints in assured and less irrigated areas: National Seminar on Rural India Development Alternatives: Sectoral Conversance for livelihood Security (16-18, January) at CIRG, Mathura (U.P).	Kumar, Rupendra, Gautam, U.S., Tomar, R.K.S., Prajapati, R.K. and Singh, H.P. (2009)	-
4		Productivity improvement of chickpea through integrated crop management under front line demonstrations. In abstract of International Conference "Grain legume: Quality improvement, Value addition and trade" Feb.,14-16, 2009 IIPR, Kanpur, India 237-238 pp.	Tomar, R.K.S.(2009)	-
5		Scenario of trends in production and productivity of pulses calls for policy options in India. In abstract of Grain legume: Quality improvement, Value addition and trade" Feb.,14-16, 2009 IIPR, Kanpur, India 60-61 pp.	Tomar, R.K.S and Rathi, Deepak(2009)	-
6		Export performance of pulses during pre and post liberalization period in India. In abstract of Grain legume: Quality improvement, Value addition and trade" Feb.,14-16, 2009 IIPR, Kanpur, India pp 61-62 pp.	Deepak Rathi and Tomar,R.K.S. (2009)	-
1		Technical reports (5)	Annual Report of F.L.D. on of oilseeds and pulses 2008 – 09.	
2		Annual Progress Report 2008 – 09.		-
3		Annual Action plan 2009 – 10		-
4		Annual Progress Report of Seed Village Scheme 2008-09		-
5		Annual Progress Report of NAIP2008-09		-

6		Annual Progress Report of NFL-JNKVV Joint Fertilizer Programme 2008-09		-
1	Technical bulletins (2)	Sarson ki vyavasayk kheti (Commercial cultivation of Sarson, Technical bulletin, Edited by Published by KVK, Tikamgarh under NFL-JNKVV Jabalpur, joint fertilizer Programme) 1-40 pp	Prajapati, R.K., Tomar, R.K.S and Singh, R.K. and. Sahu, B.L (2009)	1000
2		Beej Utpadan Nirdeshka (Seed Production Guideline) Published under Seed Village Programme by KVK/Tikamgarh/2008-09. 1-42 pp	Tomar, R.K.S, Prajapati, R.K, Singh, R.K. and. Sahu, B.L (2009))	1000
1	Popular articles (3)	Afim Ki Kheti Aur Saranchhadan (Cultivation and Protection of Opium). Kuruchhetra, 54(8) : 39-43.pp.	Prajapati, R.K. (2008).	-
2		Anar Ki Paidawar Kaise Badaain (How to improve the production of pomegranate). Kuruchhetra. 55(5): 39-43.pp	Prajapati, R.K. (2009)	-
3		Dhan Ke Pramukh Rog Aur Unka Niyantaran (Major Diseases of Paddy and their Management. Kraksak Jagat, July-2008, 06 pp	Yadav, V.K. and Tomar, R.K.S. (2008)	-
1	Extension literature (12)	Neem Ka Paudh Saranchhadan Main Upyog (Use of Neem as in Plant Protection). KVK/TKG/2008-09/01	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009).	1000
2		Chane Main Illiyon Ka Akikrat Prabandhan (Integrated Management of Borers in Chickpea). KVK/TKG/2008-09/02	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
3		Gehun Main Dimak Ka Niyantaran (Termite control in wheat). KVK/TKG/2008-09/03	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
4		Pheromone Trap Kiton Ke Purva Anuman Ke Liye Upyogi (Pheromone Taps useful for Prediction about Insect Pest in Feld). KVK/TKG/2008-09/04	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
5		N.P.V. Duwara Chane Ki Illi ka Niyantaran (Use of N.P.V. as Pod Borer Management in Chickpea). KVK/TKG/2008-09/05	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
6		Sarson Neem Ka Paudha Saranchhadan Main Upyog. (Use of Neem as in Plant Protection). KVK/TKG/2008-09/01	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
7		Podh Sanrakshan Rasayanikon Ka Surakshit Upyog. (Safe Use of Pesticides in Plant Protection). KVK/TKG/2008-09/07	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
8		Chane Ke Pramukh Rog. (Major Diseases of Chickpea). KVK/TKG/2008-09/08	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
9		Genhu Ke Pramukh Rog. (Major Diseases of Wheat). KVK/TKG/2008-09/09	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
10		Adarak Ke Vividha Utpad. (Value addition in Zinger). KVK/TKG/2008-09/10	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
11		Sabjiyo Me Paud Sanrakshan. (Plant Protection in Vegetables). KVK/TKG/2008-09/11	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000
12		Surakshit Anaj Bhandaran Kaise Kare (How to safe storage the grain). KVK/TKG/2008-09/12	Prajapati, R.K., Singh, R.K., Sahu, B.L. and Tomar, R.K.S. (2009)	1000

किसान पत्र
नवाहरलाल नेहरू कृषि विश्वविद्यालय
कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

कृषि विज्ञान केंद्र का सफल प्रयास

कृषि विज्ञान केंद्र का सफल प्रयास... (Text describing the center's achievements in agriculture)

किसान पत्र (किसानों) के माध्यम से
कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

किसान-पत्र
नवाहरलाल नेहरू कृषि विश्वविद्यालय
कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

कार्यक्रम सम्पन्न की खबर है

आज की उन्नत तकनीक... (Text about agricultural technology)

नवाहरलाल नेहरू कृषि विश्वविद्यालय
कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

बीज उत्पादन निर्देशिका

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दिशा ने बदली दशा

कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

नवाहरलाल नेहरू कृषि विश्वविद्यालय
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कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

बरसात में भी प्याज

कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

नवाहरलाल नेहरू कृषि विश्वविद्यालय
कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

सरसों की व्यवसायिक खेती

नवाहरलाल नेहरू कृषि विश्वविद्यालय
कृषि विज्ञान केंद्र, टीकमगढ़ (म.प्र.)

एन एफ एल - जे एन के वी टी संयुक्त उत्तरक कार्यक्रम

Folders



3.6.(C). Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1.	CD	Production Technology of Kharif Onion	01

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)-

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year-

3.9. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

3.10. Indicate the specific training need analysis tools/methodology followed for

Identification of courses for farmers/farm women	PRA, Survey, Personal visit under view of farmers and progressive farmers.
Rural Youth	PRA, diagnostic Survey, availability of natural resources.
In- service personnel	PRA, Socio economic Survey, Monthly workshop meeting, Zonal workshop, Scientific advisory service.

3.11 Field activities

1	Number of villages adopted	3
2	No. of farm families selected	300
3	No. of survey/PRA conducted	1

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :

1. Year of establishment : June 2006
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Digital PH Meter	1	7207.00
2	Grinder	1	8818.00
3	Rotary Shaker	1	20708.00
4	Oven	1	20000.00
5	Refrigerator	1	18792.00
6	UPS	1	29688.00
7	Stabilizer	1	14440.00
8	Flame Photo meter	1	36850.00
9	Fisher	1	12600.00
10	Dimin Shore	1	74880.00
11	LPG Cylinder with Burner	1	3649.00
12	Nitrogen analyzer	1	112613.00
13	Hot Plate	1	3134.00
14	Conductivity meter	1	7830.00
15	Balance	1	64800.00
16	Spectrophotometer	1	98000.00
Total		16	534009.00

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	410	200	2	-
Water Samples	-	-	-	-
Total				

4.0 IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Seed Production	20	30	80000/-	120000/-
Ginger Production	20	40	20000/-	60000/-
Chilli Production	20	50	10000/-	20000/-
Mustard Production	20	90	5000/-	15000/-

4.2. Cases of large scale adoption

4.3 Details of impact analysis of KVK activities carried out during the reporting period :

Nil

5.0 LINKAGES

5.1 Functional linkage with different organizations

S.N.	Name of the Organization	Nature of linkage
1	Department of Agriculture	Joint field visits, diagnostic visits, monthly workshop, in-service training, demonstrative training programme. Joint meeting and participation in SAC meeting special trainings.
2	Veterinary	Trainings, SAC meeting
3	Horticulture	Training, joint visits to farmers field/orchards plantation at KVK farm and farmers fields, SAC meeting
4	IFFCO	Training cum Demonstration & SAC
5	All India Radio	Radio recordings and SAC meetings
6	Fisheries	Training and SAC meeting
7	Irrigation	SAC meeting, Trainings of members of water users association
8	Disstt. Child & Women welfare deptt.	SAC meeting
9	Industry deptt.	SAC meeting
10	Soil conservation	SAC meeting and training, workshop
11	Lead bank	SAC meeting
12	Forest	SAC meeting, Training and Plantation
13	M.P. Doordarshan	SAC meeting and broadcasting of extension activities
14	MP State Beej evam Farm Development corporation	Meeting,workshop,Trainings and ensuring seeds availability to the farmers
15	MP Seed Certification Agency	Meetings, Trainings, Monitoring of seed production
16	NGO – ASA, PARMARTH, TARAGRAM,	Meeting, Trainings, Workshop, Demonstration

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
MPWSR Project	2005	WRD,MP Govt.	10.00 lakh
Seed Village Scheme	2006	DAC,Govt of India	3.00 lakh
NAIP	2008	ICAR	9.50 lakh
NFL-JNKVV joint programme	2008	NFL	0.50 lakh

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district **Yes**

S. No.	Programme	Nature of linkage	Remarks
1	Monthly workshop	Meetings and Trainings	Technical support

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
	Nil		

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1	Nil		

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of Estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
Nil									

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Oilseeds (Soybean)	26.06.2008	28.10.2008	12.40	JS-93-05	B/S	38.98	KVK farm attached with the College of Agriculture main farm data not provided by the I/C farm.		
Pulses (Gram)	14.11.2008	12.03.2008	8.2	JG-315	B/S	114.45			
Pea	16.12.2008	22.03.2009	2.4	Arkel	B/S	47.52			
Wheat	30.12.2008	22.04.2009	2.4	C-306	B/S	12.30			

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
Nil					

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
Nil							

6.5 Utilization of hostel facilities

Accommodation available (No. of beds) : **NIL**

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	UCO	Jabalpur	11084739600
With KVK	State Bank Of India	Tikamgarh	11084739600

7.2 Utilization of funds under FLD on Oilseed (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2009
	Kharif 2008	Rabi 2008 -09	Kharif 2008	Rabi 2008-09	
Inputs	0.105	0.875	Booked in main contingency grant		
Extension activities	0.015	0.012			
TA/DA/POL etc.	0.015	0.012			
TOTAL	13500	11250	10550	6610	

7.3 Utilization of funds under FLD on Pulses (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2009
	Kharif 2008	Rabi 2008 -09	Kharif 2008	Rabi 2008-09	
Inputs	0.091	0.109	Booked in main contingency grant		
Extension activities	0.013	0.015			
TA/DA/POL etc.	0.015	0.023			
TOTAL	12470	14545	10650	-	

7.4 Utilization of funds under FLD on Cotton (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2009
	Kharif 2008	Rabi 2008 -09	Kharif 2008	Rabi 2008-09	
Inputs	Nil	Nil	Nil	Nil	Nil
Extension activities	Nil	Nil	Nil	Nil	Nil
TA/DA/POL etc.	Nil	Nil	Nil	Nil	Nil
TOTAL	Nil	Nil	Nil	Nil	Nil

7.5 Utilization of KVK funds during the year 2008-09

S.N.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	21.00	-	13.98151
2	Traveling allowances	1.00	-	0.80150
3	Contingencies	7.00	-	6.64467
a	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	-	-	-
b	POL, repair of vehicles, tractor and equipments	-	-	-
c	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	-	-	-
d	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	-	-	-
e	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	-	-	-
f	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	-	-	-
g	Training of extension functionaries	-	-	-
h	Maintenance of buildings	-	-	-
i	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-
j	Library	-	-	-
TOTAL (A)		29.00	-	-
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipments including SWTL & Furniture	6.00	-	5.99831-
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	-	-	-
TOTAL (B)		-	-	-
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		35.00	-	27.42599

7.6 Status of revolving fund (Rs. in lakhs) for the three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2004 to March 2005	Nil	Nil	Nil	Nil
April 2005 to March 2006	Nil	Nil	Nil	Nil
April 2006 to March 2007	Nil	Nil	Nil	Nil
April 2007 to March 2008	1.00	Nil	Nil	1.00
April 2008 to March 2009	1.00	Nil	Nil	1.00

8.0. Please include information which has not been reflected above(write in detail).

A) Seed Village Scheme (Seed Production Programme)

S. N.	Crop	Variety	Grade of Seed	No. of Village	No. of Farmers	Quantity of Seed Production (q)	Average yield (Kg/ha)
1.	Soybean	JS-93-05	F/S	03	150	566.27	1887.33
2.	Wheat	GW-322	F/S	03	150	4942.86	1481.17

B). NFL-JNKVV joint fertilizer programme (FLD on neem coated urea).

S. No.	Crop	Variety	No. of Village	No. of Farmers
1.	Mustard	Pusa jai kisan	03	10

Table: Grain yield of mustard of different rate of nitrogen under Neem coated urea and Simple urea.

Treatments	Yield (Kg/ha)	% increase in yield over local check	% increase in yield over simple urea
Farmers practices(40:20:00 N P K, Kg/ha)	755	-	-
80% N through NCU (60:40:20, N P K, Kg/ha.)	1244	64.76	-
80% N through Simple urea (64:40:20,N P K, Kg/ha.)	1412	87.01	13.50
100% N through NCU (80:40:20,N P K, Kg/ha.)	1490	97.35	-
100% N through Simple urea (80:40:20, N P K, Kg/ha.)	1717	127.41	15.23
SE ±	069.13		
CD (5%)	141.04		

C). National Agricultural Innovation Project Component-III

(Integrated farming system modules to ensure sustainable livelihood security for the peasants of disadvantaged districts of Madhya Pradesh).

Training cum workshop organized under NAIP by KVK, Tikamgarh.

S.No.	Name of the Programme	Period	Name of Villages / Cluster's	No. of Participants
1	Kisan Gosthi cum Farmer's Meeting	23-3-2009	Cluster-1	42
			Barmarai,	
			Rigora Sunderpur	
2	Kisan Gosthi cum Farmer's Meeting	24-3-2009	Cluster-2	52
			Majhgua	
			Bijrawan Nadia	
3	Kisan Gosthi cum Farmer's Meeting	25-3-2009	Cluster - 3	28
			Birora Khet	
			Birora Pahad Satti SattaTola	

8.1 Constraints

(a) Administrative

1. Many post lying vacant as mentioned earlier.
2. Lack of staff, residential quarters.
3. More financial assistance should be given to Programme Coordinators.

(b) Technical

1. Staff should be deputed to attend advance Trainings, Workshops and Summer Institutes.

(c) Financial

1. Fund as per allotment should be released within time for timely conduct of all the activities.

Signature of Programme Co-ordinator

Proceedings of SAC meeting (8th May 2008), KVK, Tikamgarh

Scientific Advisory Committee meeting was held on 08-05-2008 at JNKVV, Krishi Vigyan Kendra, Tikamgarh (M.P.) to discuss the progress 2007-08 and action plan 2008-09 for commencing kharif season. The meeting was headed by Dr. R. K. Pathak. Dean, College of Agriculture, Tikamgarh and Dr. P. K. Bisen, Jt. Director, Extension Services, JNKVV, Jabalpur were also review the meeting as chief guest. Head/ representatives of Agriculture, Veterinary, Horticulture, Beej Nigam, Seed Certification, Krishi Upaj Mandi, Warehouse, Marketing Federation, M P Agro, Agril Engineering, Soil Testing, Soil Conservation, IFFCO, DIC, CEDMAP, DPIP, Planning, Fisheries, various Banks, Co-operative Societies and progressive farmers! farm women were presented in the meeting.

A valuable informative technical bulletin “सोयाबीन उत्पादन निर्देशिका” and new folders “Introduction and Achievements of KVK 2007-08” were unveiled along with the Information Technology based programme “Kisan Mobile Sandesh” was also started by Dr. P. K. Bisen.

Dr. R.K.S. Tomar, P.C., KVK presented the results/progress of the previous season. Although the Rabi season crops were adversely suffered by the severe drought at Tikamgarh district but the OFT, FLD's and other demonstrations performed well in such condition, laid out by KVK, Tikamgarh at farmers field. An effort made by Dr. Tomar and team of KVK was appreciated by all the participants and Chief guest. Action plan for Kharif 2008 was also presented by Dr. R.K.S. Tomar and after that the question/suggestions were asked from the participants.

During discussion on planning for next seasons following suggestion were given by the participants.

Shri C.S. Shukia, Coordinator, Nehru Yuva Kendra, Tikamgarh emphasized the necessity of extension of new improve technology among the farmers and to produce their on seed at there farm. Coordination of all the line department of agricultural is the prerequisite for the all round progress of agriculture of the district.

Shri M.P. Shrivastava, Coordinator, CEDMAP, Tikamgarh suggested the following point which is to be incorporated in the next action plan/strategy.

- i. Exploitation of food processing potential of district.
 - ii. Drip irrigation and lift pond scheme should be launched in collaboration with him.
 - iii. Introduction of new/dwarf variety of papaya (Selection-1) suitable for this region.
 - iv. Trainings and visits of farmers should be performed as joint venture with CEDMAP.
 - v. Marketing of medicinal crops should by establish and the efforts were made by the CEDMAP to sell the farmers produce.
 - vi. Seed oils of palash (Chhoula) should be exploited in the treatment of cattle's.
 - vii. Ber sharhat industry on small such can be started as a joint effort of KVK and CEDMAP.
 - viii. At local levels, by the formation of society, marketing could he strengthened.
- Shri Shuka suggest that ground nut production is minimized in the region should be maximized with the popularization of improved technology.
 - Shri Mishra, Deptt. of Planning & Statistics, queried about the progress of the district in agriculture and plan for next year from Agriculture Department.

- Shri Tripathi, Warehouse representative, explained different scheme operated by the warehouse corporation Viz.
 - i. Storage facilities.
 - ii. Subsidy on gunny bags.
 - iii. Loan facility.
 - iv. Insect and disease control on subsidized rate etc.
- Shri A. K. Rathore, Assitt. Director Agriculture, Tikamgarh, appreciated the efforts/ progress made by KVK in adverse climatic conditions. He replied effectively queried made by Shri Mishra, Deptt of Planning & Statistics and pointed out following points.
 - i. Training and Visit of farmers through ATMA in cooperation of KVK should be strengthened.
 - ii. Soil conservation should be kept in mind while preparing the plan.
 - iii. Own seed production should be encouraged.
 - iv. Kharif onion must be incorporated in plan.
 - v. Efforts should be concentrated towards the mix cropping of papaya, soyabean, chillies, tomato.
- Dr. Pateriya, Deptt. of Veterinary, Emphasized the ectoparasite problem in cattle and suggested to increase the awareness about the production of green fodder round the year through training.
- Shri Jharkhadiya, Suggested trainings should be perform to increase know how of beneficiaries.
- Shri Surendra Singh, IFFCO, emphasized the necessity of composting (Vermi, NADEP etc.) to encounter the problem of high priced chemical fertilizers.
- Dr. P. K. Bisen, Jt. Director, Extension Services, JNKKV. Jabalpur stated to know the area specific problems of the farmers and the plan should be prepared accordingly. Explained the severity of drought and applied to conserve soil moisture and water resources.
- Dr. R. K. Pathak, Dean, College of Agriculture, Tikamgarh stated that the training should be strengthened and OFT and FLD must be carried out at farmers field to popularize improved agro production and protection technology in agriculture. He appreciated the work carried out by the KVK scientists and also praised the working of KVK under such limited resources.

At last, vote of thanks was given by Dr. R.K.S. Tomar, PC, KVK, Tikamgarh to all the participants for their valuable suggestions and presence.

Proceedings of SAC meeting (6th November 2008), KVK, Tikamgarh

Scientific Advisory committee meeting of Krishi Vigyan Kendra, Tikamgarh (M.P.) for Rabi 2008-09 was held on 6th November 08 under the Chairmanship of Dr. R. K. Pathak, Dean college of Agriculture, Tikamgarh and chief guest was Dr. N. K. Khare, Joint Director, Extension Services, JNKVV, Jabalpur and special guest was Smt. Manorama Sharma (Social Worker, Progressive farmer, Tikamgarh). In this meeting representatives' different department and progressive farmers were present like Agriculture, Veterinary, Fisheries, DPIP, Forest, Horticulture, Beej Nigam, Seed Certification, Irrigation, CWDW, Ware House, Industries, Cedmap, NGOs(ASA, GVT), IFFCO etc.

After Sarashwatipujan, welcome address was given by Dr.R.K.S.Tomar P.C., KVK, Tikamgarh. There after Dr.Tomar presented the progress and salient findings of Kharif-08 and technical programme for Rabi 2008-09 which is to be implemented in commencing Rabi season.

Later on, the forum was open for the critical discussion and suggestions to modify the technical programme for Rabi 08-09. Suggestion/amendments given by the different participants/officials were as follows.

- Dr.Kamal, Horticulturist suggested the incorporation of cultivation of marigold introduced in the district.
- Shri.R.K.Jain, emphasized the Deworming medicine of cattle's coupled with mineral mixture twice in a year in whole the season.
- Shri.Surendra Singh suggested - KMS → voice message must be in Hindi so that farmers may read them easily.
- Shri.K.P.Ahirwar, DPIP ensured to provide the list of member of gramothan Sâmi-tee for supply of quarterly Newsletter.
- Shri.Parihar, Asstt Director, asked for the list of KVK adopted farmers to whom minikits of potato, chilies, medicinal, spices seeds can be distributed to popularize the improved technologies amongst the farmers.
- Shri.Bhadauria from Department of Agriculture Engineering asked for the association for agricultural implement popularization in the district.
- Dr.N.K.Khare, Joint. Director, Extension Services, JNKVV, Jabalpur suggested following points.
 - a) Technology testing should be climate oriented.
 - b) Impact analysis should be carried out of Trainings, OFT and FLDs to make them effective and for their refinement.
 - c) Emphasis should be given on nutrition gardening to get fruits, vegetables etc., round the year.
 - d) Under the seed village programme, farm women's must be given due weightage and their training should be on storage and they exchange their seed with improved seed.
 - e) Vermi compost should be tried in vegetable production.
 - f) FLD's on fodder should be carried out round the year.
 - g) Crop cafeteria should be developed at KVK so that majority of farmers get benefited.
 - h) Vegetable and floriculture interest group formation must be taken in due consideration.
 - i) Formation of Duckery groups may be incorporated in the programme.
 - j) Crop, seed and technology replacement should be taken as "mission".
- Smt.Manorama Sharma emphasized following suggestions :
 - a) Use of low cost input technology should be popularized.
 - b) Assured marketing facilities should be generated.
 - c) Incorporation of Bio-farming in programme.

- d) Dissemination of technology/literature to make the farmers aware regarding Soil-water conservation practices.
- e) Conservation crops of minor millets viz Kodo, Kutki, Ragi, Sawan and Lathara and their land races must be taken as priority.
- Dy. Director Agriculture, Tikamgarh Shri.K.C.Jatav presented the sceneries of Crop production of district Tikamgarh and assured the help in all the programme of KVK.
- Dean, College of Agriculture, Tikamgarh, Dr.R.K.Pathak emphasized the importance of land races of different crops, women empowerment and seed village yogena. These fields must be given due attention.

At last, vote of thanks was given by Dr.R.K.S.Tomar, P.C., KVK,Tikamgarh. The Sanchalan (anchoring) was done by Dr.Amit Sharma.
